

HERO POWER

SINCE 1986
GROUP

Catalog

HERO POWER

Welding Equipment

- 150~1300A TIG / MIG Welding Equipment
- 800~1300A Submerged Arc Welding
- 30~500A Plasma Machine
- 300~400A Stick (SMAW)
- 50~160A Plasma Cutter
- 130~250A MIG Welding Equipment
- 190~220A Stick (SMAW)

ARCO

HPT HeroPowerTech

Laser Optical Equipment

- 1000~1200KW Air-Cooled Laser
- 1500~2000KW Water-Cooled Laser
- Optical & Precision Accessories

HERO 好漢 POWER

Automation

- Automatic Welding Carriage

倍利源 Braver Power

Rectifier

- Pulse ABD / Forward Pulse ABP
- Pulse-Reverse ABU
- 1KW/2KW High Voltage Power Supply



華豐科技企業股份有限公司

HERO POWER TECHNOLOGY CORP.

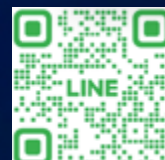
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Precise • Reliable • Energy Saving
Voluntary carbon reduction compliant



website



LINE



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華豐科技 源起於1986年，在電力電子設備領域，具有專業的研發技術和豐富的生產經驗。長期深耕於金屬焊接、切割設備及變頻(切換)式的工業電源。我們團隊具有研發設計的能力，能夠根據客戶的特定需求，進行產品的開發及生產製造。不斷提供更優質、智能及環保的創新產品是我們的使命。於2014年率先將產品技術轉型為數位式控制，領先業界主導改變。

華豐科技不單立足台灣，2001年起更展開全球佈局，在上海設立寶諾陽電源科技(上海)有限公司，並通過英國BSI認證機構ISO9001品質管理體系認證，提高生產效率及產品競爭力，積極拓展海外市場。我們的產品在台灣市佔率達30%以上，並外銷至中國大陸、新加坡、馬來西亞、泰國、印尼、越南、印度、澳洲等地，深獲國內外使用者的肯定。

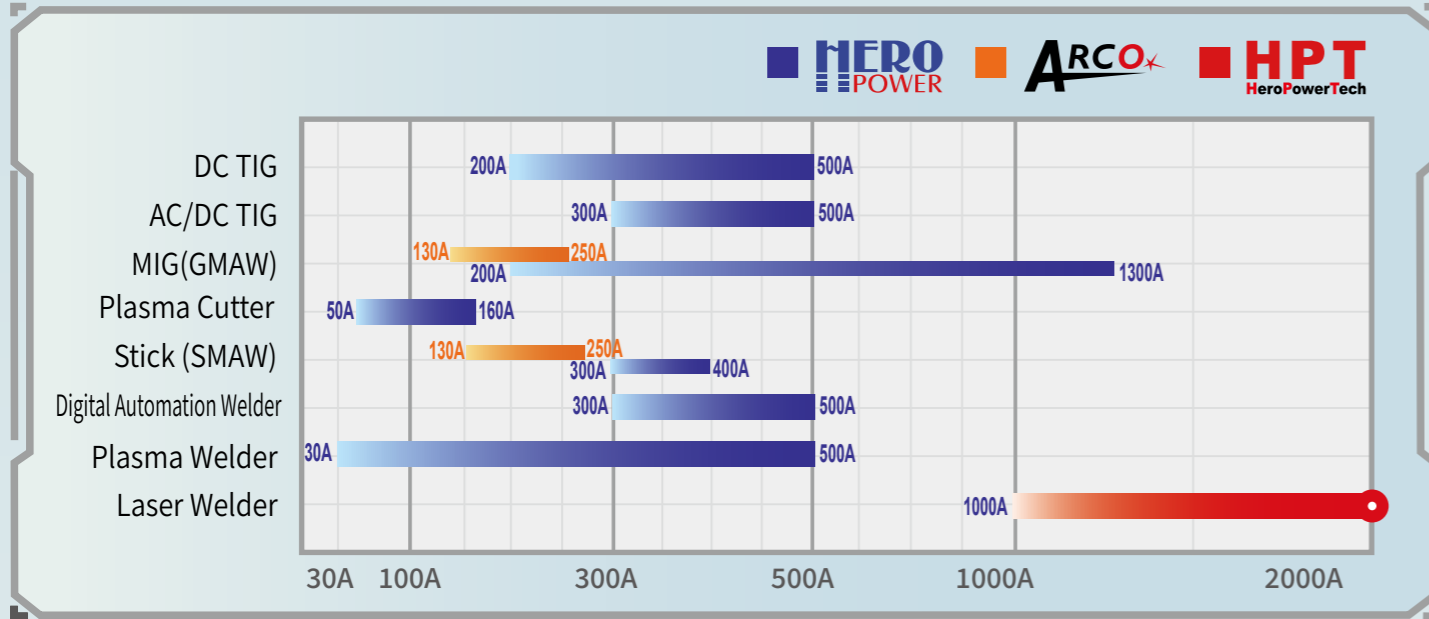
Accumulated with abundant experience of R&D and manufacturing in Inverter Arc Weld & Cut equipment since 1986, Hero Power Technology Corp. (Taiwan) cooperated with Power Arc LLC (U.S.A) and established the second production base, Power Arc Tech. Co., Ltd (Shanghai) in 2001. HERO POWER persists in executing the quality system strictly to ensure producing excellence. All of HERO machines have been certificated by CCC (China Compulsory Certification) auditing. Depending on our high-level quality characteristics and prompt, effective service system, HREO POWER production has marketed in Taiwan, Singapore, Malaysia, Indonesia, Thailand, Vietnam, Australia, Mainland China and other countries.

We have been persisting in the point, 'Striving for Perfection', as the guide line of our actions, manufacturing is strictly in accordance with the international standards [ISO] and the state standards [GB], so as to acquire and ensure every product is in high quality.

30A~2000A+

Full-Power Industrial Welding Solutions

From precision sheet metal and aluminum processing to heavy-duty fabrication and smart automation, Hero Power Tech delivers integrated welding, cutting, laser, and industrial power solutions.



HERO POWER DC TIG

- 200A | F-20P DT-200 DT-200P DT-201P
- 250A | DT-250 DT-251P
- 300A | DT-300 DT-301 BET-315 FT-320
- 360A | DT-360E
- 400A | DT-400 DT-401 FT-402
- 500A | DT-500 FT-500 FT-501



HERO POWER AC/DC TIG

- 300A | AT-301 AFT-301
- 350A | AT-350R
- 400A | AT-400 AFT-400
- 500A | AT-500 AFT-500



HERO POWER Plasma Cutter

- 50A | DP-50 BEP-50 SP-53
- 60A | DP-60 BEP-60
- 90A | DP-90 BEP-92 AP-90
- 120A | BEP-120
- 160A | BEP-160

HERO POWER Stick (SMAW)

- 190A | ARCO210
- 220A | ARCO300
- 300A | BES-300II BES-300
- 400A | DS-400 BES-400



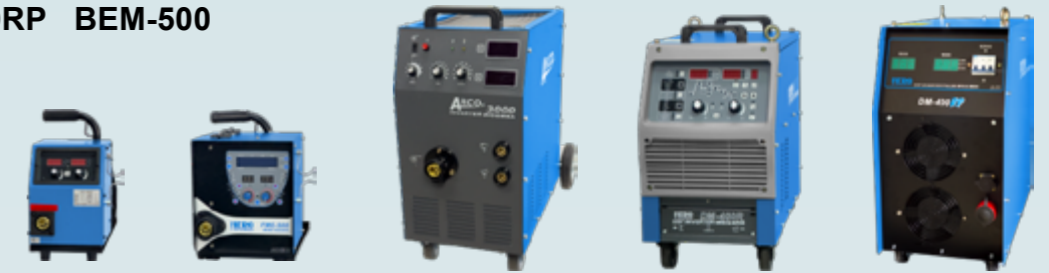
HPT Laser Optical Equipment

- 1000A | 40E (Air-Cooled)
- 1200A | 50C (Air-Cooled)
- 1500A | HW1500 (Water-Cooled)
- 2000A | HW2000 (Water-Cooled)
HW2000-5 (Water-Cooled)



HERO POWER ARCO* MIG (GMAW)

- 130A | ARCO1680
- 200A | BCM-200
- 250A | BCM-250EF ARCO3000
- 350A | BEM-350
- 400A | DM-400R DM-400RS DM-400RP
- 500A | DM-500RS DM-500RP BEM-500
- 550A | DM-500R
- 650A | BEM-650
- 800A | DM-800
- 1000A | DM-1000
- 1300A | DM-1300



HERO POWER 好漢 Automatic Welding Carriage



HC-5 HC5-1K HC5-6

HERO POWER Plasma Welder

- 30A | PT-30
- 50A | PAW-50
- 200A | PAW-200
- 500A | PT-500
PAW-500 PAW-501



HERO POWER Digital Automation Welder

- 300A | DT-300C
- 400A | DT-401C
- 500A | DT-501C



倍利源 Braver Power Rectifier / High Voltage Power Supply

- Digital Pulse | ABD
- Digital Forward Pulse | ABP
- Digital Pulse-Reverse ABU | ABU
- High Voltage Power Supply | 1KW 2KW



F-20P

Application

Industrial Applications · Process pipe
Food/beverage industry · Shipboard
Maintenance repair
Restaurant/kitchen repair

Features

Lightweight and portability for outside job
Inverter technology for energy-efficient
Thermal Overload Protection
Provide fast uninterrupted spot welding
Easy to set up and operate
Pulse Function included
Support welding cleaning brush
4-segment arc control (S-hard/hard/soft/S-soft)
Provide lift arc start



Specification

Input Power	V	110 V, 1Φ	Pre flow time	Sec	0.1
		220 V, 1Φ	Post flow time	Sec	2~10
Input voltage range	%	±15%	Pulse current	A	-
Input frequency	HZ	50 & 60	Pulse frequency	HZ	High: 10
Rated input capacity	KVA	7.5			-
	KW	5	Low: 1		
Rated output	V	TIG: 18	Pulse Ratio Width	%	50
		STICK: 25.2	Duty cycle	-	200A / 60%
A	TIG: 200	-		155A / 100%	
	STICK: 130	Water cooler control	-	-	
Welding amperage range	A	TIG: 5~200	Clean	A	5~10
		STICK: 5~130	Gas check	-	-
Efficiency	%	72	Crater control	-	Crater / Repeat
Open-circuit voltage	V	100	Insulation class	-	H
Up slope	Sec	-	Protection class	-	IP21S
Down slope	Sec	-	Dimension (W*D*H)	mm	211*400*240
Spot time	Sec	-	Net Weight	kg	16



DT-200

Application

Industrial Applications · Aerospace
Pressure vessel · Pipe & tube fabrication
Food process · Vacuum equipment

Features

Lightweight and portability for outside job
Inverter technology for energy-efficient
Thermal Overload Protection
MMA function included
Easy to set up and operate
Two-stage pulse and back blow adjustment function
4-segment arc control(S-hard/hard/soft/S-soft)



Specification

Input Power	V	110 V, 1Φ	Pre flow time	Sec	0.03, 0.04, 0.07
		220 V, 1Φ	Post flow time	Sec	1.5, 3
Input voltage range	%	±15%	Pulse current	A	-
Input frequency	HZ	50 & 60	Pulse frequency	HZ	High: 10
Rated input capacity	KVA	6.33			-
	KW	5	Low: 1		
Rated output	V	TIG: 18	Pulse Ratio Width	%	50
		STICK: 25.6	Duty cycle	-	200A / 20%
A	TIG: 200	-		90A / 100%	
	STICK: 130	Water cooler control	-	-	
Welding amperage range	A	TIG: 5~200	Clean	-	-
		STICK: 5~130	Gas check	-	-
Efficiency	%	72	Crater control	-	-
Open-circuit voltage	V	100±5	Insulation class	-	H
Up slope	Sec	-	Protection class	-	IP21S
Down slope	Sec	-	Dimension (W*D*H)	mm	195*450*280
Spot time	Sec	-	Net Weight	kg	11.8



DT-200P

Application

Industrial Equipment Manufacturing
Stainless Steel Processing
Sheet Metal Fabrication, Pipeline Manufacturing
Shipbuilding and Repair Industry

Features

Dual voltage input design (110/220V), equipped with dual meters for simultaneous display of voltage and current, meeting various regional safety requirements.

Inverter technology ensures high efficiency and energy savings, with built-in overheat, overload, and VRD protection mechanisms to enhance operational safety and reduce accident risks.

Supports MMA welding, low pulse, and adjustable post-flow functions, providing flexibility for diverse welding applications.

“Dual Display
110VAC/220VAC”



Specification

Input Power	V	110 V, 1Φ	Pre flow time	Sec	0.03, 0.04, 0.07
		220 V, 1Φ	Post flow time	Sec	2, 4
Input voltage range	%	±15%	Pulse current	A	-
Input frequency	HZ	50 & 60	Pulse frequency	HZ	-
Rated input capacity	KVA	7.84			-
	KW	4.9	Low: 1		
Rated output	V	TIG: 18	Pulse Ratio Width	%	50
		STICK: 24.8	Duty cycle	-	200A / 20%
	A	TIG: 200		-	90A / 100%
		STICK: 120	Water cooler control	-	-
Welding amperage range	A	TIG: 5~200	Clean	-	-
		STICK: 5~120	Gas check	-	-
Efficiency	%	72	Crater control	-	Crater
Open-circuit voltage	V	105±5	Insulation class	-	H
Up slope	Sec	-	Protection class	-	IP21S
Down slope	Sec	-	Dimension (W*D*H)	mm	195*450*280
Spot time	Sec	-	Net Weight	kg	12.2



DT-201P

Application

Industrial Equipment Manufacturing
Stainless Steel Processing
Sheet Metal Fabrication, Pipeline Manufacturing
Shipbuilding and Repair Industry

Features

Dual voltage input (110/220V) for easy portability and on-site operation.

Inverter technology ensures high efficiency and energy savings, with built-in overheat, overload, and VRD protection mechanisms to enhance safety and reduce operational risks.

Supports MMA welding with high/low pulse switching, and features adjustable post-flow time and crater current control. Switchable latch and repeat welding modes provide the flexibility to meet a wide range of industrial welding applications.

“Plug-and-play
110VAC/220VAC”



Specification

Input Power	V	110 V, 1Φ	Pre flow time	Sec	0.03, 0.04, 0.07
		220 V, 1Φ	Post flow time	Sec	2~10
Input voltage range	%	±15%	Pulse current	A	-
Input frequency	HZ	50 & 60	Pulse frequency	HZ	High: 10
Rated input capacity	KVA	7.84			-
	KW	4.9	Low: 1		
Rated output	V	TIG: 18	Pulse Ratio Width	%	50
		STICK: 24.8	Duty cycle	-	200A / 20%
	A	TIG: 200		-	90A / 100%
		STICK: 120	Water cooler control	-	-
Welding amperage range	A	TIG: 5~200	Clean	-	-
		STICK: 5~120	Gas check	-	-
Efficiency	%	72	Crater control	-	Crater / Repeat
Open-circuit voltage	V	105±5	Insulation class	-	H
Up slope	Sec	-	Protection class	-	IP21S
Down slope	Sec	-	Dimension (W*D*H)	mm	195*450*280
Spot time	Sec	-	Net Weight	kg	12.2



DT-250P

“Dual Display
110VAC/220VAC”

Application

Industrial Applications · Aerospace
Pressure vessel · Pipe & tube fabrication
Food process · Vacuum equipment

Features

Dual voltage input design (110/220V), equipped with dual meters for simultaneous display of voltage and current, meeting various regional safety requirements.

Inverter technology ensures high efficiency and energy savings, with built-in overheat, overload, and VRD protection mechanisms to enhance operational safety and reduce accident risks.

Supports MMA welding, low pulse, and adjustable post-flow functions, providing flexibility for diverse welding applications.



Specification

Input Power	V	110 V, 1Φ	Pre flow time	Sec	0.03, 0.04, 0.07
		220 V, 1Φ	Post flow time	Sec	2, 4
Input voltage range	%	±15%	Pulse current	A	-
Input frequency	HZ	50 & 60	Pulse frequency	HZ	-
Rated input capacity	KVA	11.73			Duty cycle
	KW	6.93			
Rated output	V	TIG: 20	Pulse Ratio Width	%	50
		STICK: 26	Duty cycle	-	250A / 20%
A	TIG: 250	Water cooler control			-
	STICK: 150				
Welding amperage range	A	TIG: 5~250	Clean	-	-
		STICK: 5~150	Gas check	-	-
Efficiency	%	72	Crater control	-	Crater
Open-circuit voltage	V	105±5	Insulation class	-	H
Up slope	Sec	-	Protection class	-	IP21S
Down slope	Sec	-	Dimension (W*D*H)	mm	195*450*280
Spot time	Sec	-	Net Weight	kg	12.2



DT-251P

“Plug-and-play
110VAC/220VAC”

Application

Industrial Equipment Manufacturing
Stainless Steel Processing
Sheet Metal Fabrication, Pipeline Manufacturing
Shipbuilding and Repair Industry

Features

Dual voltage input (110/220V) for easy portability and on-site operation.

Inverter technology ensures high efficiency and energy savings, with built-in overheat, overload, and VRD protection mechanisms to enhance safety and reduce operational risks.

Supports MMA welding with high/low pulse switching, and features adjustable post-flow time and crater current control. Switchable latch and repeat welding modes provide the flexibility to meet a wide range of industrial welding applications.



Specification

Input Power	V	110 V, 1Φ	Pre flow time	Sec	0.03, 0.04, 0.07
		220 V, 1Φ	Post flow time	Sec	2~10
Input voltage range	%	±15%	Pulse current	A	-
Input frequency	HZ	50 & 60	Pulse frequency	HZ	High: 10
Rated input capacity	KVA	11.73			Duty cycle
	KW	6.93	Low: 1		
Rated output	V	TIG: 20	Pulse Ratio Width	%	50
		STICK: 26	Duty cycle	-	250A / 20%
A	TIG: 250	Water cooler control			-
	STICK: 150				
Welding amperage range	A	TIG: 5~250	Clean	-	-
		STICK: 5~150	Gas check	-	-
Efficiency	%	72	Crater control	-	Crater / Repeat
Open-circuit voltage	V	105±5	Insulation class	-	H
Up slope	Sec	-	Protection class	-	IP21S
Down slope	Sec	-	Dimension (W*D*H)	mm	195*450*280
Spot time	Sec	-	Net Weight	kg	12.2



DT-300

Application

Industrial Equipment Manufacturing
Bridge Construction & Infrastructure
Stainless Steel Fabrication \ Aerospace Engineering
Automotive Manufacturing \ Pipe & Pipeline Manufacturing

Features

1. 100 kHz dual-parallel output ensures a focused, stable arc with fast spot welding and consistent penetration.
2. High-frequency energy-efficient control enables effective welding at lower currents.
3. Lightweight 300A design with a 60% duty cycle ensures reliable on-site operation.
4. Simple control panel with current preset and voltage/current pre-display complies with site safety inspections.
5. Built-in protection functions and 200 VAC input ensure stable operation under low-voltage conditions.
6. Optional PLC interface supports automation and system integration.

“100 kHz precision pulse control
Simple control panel”



Specification

Input Power	V	220 V, 1/3Φ	Pre flow time	Sec	0.2~5		
		380/415V, 3Φ	Post flow time	Sec	2~20		
Input voltage range	%	±15%	Pulse current	A	-		
Input frequency	HZ	50&60	Pulse frequency	HZ	-		
Rated input capacity	KVA	11.78			-		
	KW	8.25	-				
Rated output	V	TIG: 22	Pulse Ratio Width	%	-		
		STICK: 26			Duty cycle	-	
	A	TIG: 300	-	300A / 60%			
Welding amperage range	A	STICK: 150	Water cooler control	-	✓		
		TIG: 5~300			Clean	-	-
		STICK: 5~150			Gas check	-	✓
Efficiency	%	80	Crater control	-	Crater / Repeat		
Open-circuit voltage	V	110±10	Insulation class	-	H		
Up slope	Sec	0.1	Protection class	-	IP21S		
Down slope	Sec	0.1	Dimension (W*D*H)	mm	260*595*505		
Spot time	Sec	-	Net Weight	kg	26.5		



DT-301

Application

Industrial Equipment Manufacturing
Bridge Construction & Infrastructure
Stainless Steel Fabrication \ Aerospace Engineering
Automotive Manufacturing \ Pipe & Pipeline Manufacturing

Features

1. 100 kHz dual-parallel output ensures a focused, stable arc with fast spot welding and consistent penetration.
2. High-frequency energy-efficient control enables effective welding at lower currents.
3. Lightweight 300A design with a 60% duty cycle ensures reliable on-site operation.
4. Full-function control panel with current preset and voltage/current pre-display complies with site safety inspections.
5. Built-in special welding modes enable easy automatic crater filling.
6. Built-in protection functions and 200 VAC input ensure stable operation under low-voltage conditions.
7. Optional PLC interface supports automation and system integration.

“100 kHz precision pulse control
Full-function control”



Specification

Input Power	V	220 V, 1/3Φ	Pre flow time	Sec	0.2~5		
		380/415V, 3Φ	Post flow time	Sec	2~20		
Input voltage range	%	±15%	Pulse current	A	5~300		
Input frequency	HZ	50&60	Pulse frequency	HZ	High: 1.3~500		
Rated input capacity	KVA	11.78			Middle: 1.2~45		
	KW	8.25	Low: 0.3~13				
Rated output	V	TIG: 22	Pulse Ratio Width	%	1~99		
		STICK: 26			Duty cycle	-	
	A	TIG: 300	-	300A / 60%			
Welding amperage range	A	STICK: 150	Water cooler control	-	✓		
		TIG: 5~300			Clean	-	-
		STICK: 5~150			Gas check	-	✓
Efficiency	%	80	Crater control	-	Crater / Repeat Spot / Special 2T		
Open-circuit voltage	V	110±10	Insulation class	-	H		
Up slope	Sec	0.1~10	Protection class	-	IP21S		
Down slope	Sec	0.1~10	Dimension (W*D*H)	mm	260*595*505		
Spot time	Sec	0.2~10	Net Weight	kg	27.5		



DT-360E

Application

Industrial Applications \ Aerospace
Pressure vessel \ Pipe & tube fabrication
Food process \ Vacuum equipment

Features

Inverter technology for energy-efficient
Thermal Overload Protection
Multiple welding modes are available
Easy to set up and operate
Built-in multiple adjustable arcs
Supports contact arc initiation
PLC control connection support
0-10V analog interface available to control welding current



Specification

Input Power	V	220 V ,1/3Φ	Pre flow time	Sec	0.2
		380/415 V ,3Φ	Post flow time	Sec	2~15
Input voltage range	%	±15%	Pulse current	A	-
Input frequency	HZ	50 & 60	Pulse frequency	HZ	-
Rated input capacity	KVA	15			-
	KW	11	-		
Rated output	V	TIG: 24.4	Pulse Ratio Width	%	-
		STICK: 30			
A	TIG: 360	Water cooler control	-	✓	279A / 100%
	STICK: 250				
Welding amperage range	A	TIG: 10~360	Clean	-	-
		STICK: 10~250	Gas check	-	✓
Efficiency	%	80	Crater control	-	Crater/off /Repeat
Open-circuit voltage	V	65±(10)	Insulation class	-	H
Up slope	Sec	0.1	Protection class	-	IP21S
Down slope	Sec	0.1	Dimension (W*D*H)	mm	306*607*490
Spot time	Sec	-	Net Weight	kg	38



DT-400

Application

Industrial Applications \ Aerospace
Pressure vessel \ Pipe & tube fabrication
Food process \ Vacuum equipment

Features

Inverter technology for energy-efficient
Thermal Overload Protection
Pulse function flexible adjustable
4-segment arc control (S-hard/hard/soft/S-soft)
Multifunction include TIG pulse,crater,repeat ,Spot,MMA(STICK) etc.
Provide lift arc start
PLC control connection support
0-10V analog interface available to control welding current
3-stage switching pulse frequency
2T welding function for up/down slope



Specification

Input Power	V	220 V ,1/3Φ	Pre flow time	Sec	0.2~5
		380/415 V ,1/3Φ	Post flow time	Sec	2~20
Input voltage range	%	±15%	Pulse current	A	10~400
Input frequency	HZ	50 & 60	Pulse frequency	HZ	High: 1.3~500
Rated input capacity	KVA	18			Middle: 1.2~45
	KW	13.1	Low: 0.3~13		
Rated output	V	TIG: 26	Pulse Ratio Width	%	1~99
		STICK: 30			
A	TIG: 400	Water cooler control	-	✓	300A / 100%
	STICK: 250				
Welding amperage range	A	TIG: 10~400	Clean	-	-
		STICK: 10~250	Gas check	-	✓
Efficiency	%	79	Crater control	-	Crater / Repeat / Special 2T
Open-circuit voltage	V	75(±10)	Insulation class	-	H
Up slope	Sec	0.1~10	Protection class	-	IP21S
Down slope	Sec	0.1~10	Dimension (W*D*H)	mm	300*730*570
Spot time	Sec	0.2~10	Net Weight	kg	43.6



DT-401

Application

Industrial Applications · Aerospace
Pressure vessel · Pipe & tube fabrication
Food process · Vacuum equipment

Features

High-Efficiency Inverter Design for Energy Saving
Built-in Overheat and Overload Protection Mechanism
Supports Manual Arc Welding (MMA)
Multiple Welding Modes Available
Real-Time Output Voltage and Current Display
Adjustable Pre-Flow and Post-Flow Gas Timing
One-Touch Switch Between Water Cooling and Air Cooling
Simple Operation and Easy to Use



Specification

Input Power	V	220 V, 1/3Φ	Pre flow time	Sec	0.2~5
		380/415V, 3Φ	Post flow time	Sec	2~20
Input voltage range	%	±15%	Pulse current	A	-
Input frequency	HZ	50&60	Pulse frequency	HZ	-
Rated input capacity	KVA	15.2			-
	KW	10.4	-		
Rated output	V	TIG: 26	Pulse Ratio Width	%	-
		STICK: 30			
A	TIG: 400	Water cooler control	-	-	✓
	STICK: 250				
Welding amperage range	A	TIG: 10~400	Clean	-	-
		STICK: 10~250	Gas check	-	✓
Efficiency	%	80	Crater control	-	Crater / Repeat
Open-circuit voltage	V	110	Insulation class	-	H
Up slope	Sec	0.1	Protection class	-	IP21S
Down slope	Sec	0.1	Dimension (W*D*H)	mm	310*600*650
Spot time	Sec	-	Net Weight	kg	39.2



DT-500

Application

Industrial Applications · Aerospace
Pressure vessel · Pipe & tube fabrication
Food process · Vacuum equipment

Features

Inverter technology for energy-efficient
Thermal Overload Protection
Pulse function flexible adjustable
4-segment arc control (S-hard/hard/soft/S-soft)
Provide lift arc start
PLC control connection support
0-10V analog interface available to control welding current
3-stage switching pulse frequency
2T welding function for up/down slope
Multifunction include TIG pulse, crater, repeat, Spot, MMA(STICK) etc.



Specification

Input Power	V	220 V, 1/3Φ	Pre flow time	Sec	0.2~5
		380/415 V, 3Φ	Post flow time	Sec	2~20
Input voltage range	%	±15%	Pulse current	A	10~500
Input frequency	HZ	50&60	Pulse frequency	HZ	High: 1.3~500
Rated input capacity	KVA	23.9			Middle: 1.2~45
	KW	19.15	Low: 0.3~13		
Rated output	V	TIG: 30	Pulse Ratio Width	%	1~99
		STICK: 36			
A	TIG: 500	Water cooler control	-	-	✓
	STICK: 400				
Welding amperage range	A	TIG: 10~500	Clean	-	-
		STICK: 10~400	Gas check	-	✓
Efficiency	%	79	Crater control	-	Crater / Repeat / Special 2T
Open-circuit voltage	V	75(±10)	Insulation class	-	H
Up slope	Sec	0.1~10	Protection class	-	IP21S
Down slope	Sec	0.1~10	Dimension (W*D*H)	mm	300*730*570
Spot time	Sec	0.2~10	Net Weight	kg	56.6



BET-315

Application

Compatible with automated welding
Industrial equipment manufacturing
Stainless steel processing \ Sheet metal fabrication
Pipeline manufacturing \ Shipbuilding and repair

Features

Inverter technology for energy-efficient
Thermal Overload Protection
Multiple welding modes available
Simple and easy to operate
Equipped with full pulse adjustment function
Built-in multiple adjustable arc characteristics
Supports contact arc ignition and remote welding current control



Specification

Input Power	V	-	Pre flow time	Sec	0.2~5
		380 V ,3Φ	Post flow time	Sec	4~15
Input voltage range	%	±15%	Pulse current	A	5~315
Input frequency	HZ	50 & 60	Pulse frequency	HZ	High: 14~500
Rated input capacity	KVA	12.5			-
	KW	10	Low: 0.7~27		
Rated output	V	TIG: 22.6	Pulse Ratio Width	%	6~75
		STICK: 30	Duty cycle	-	315A / 60%
A	TIG: 315	-		232A / 100%	
	STICK: 250	Water cooler control	-	✓	
Welding amperage range	A	TIG: 5~315	Clean	-	-
		STICK: 5~250	Gas check	-	✓
Efficiency	%	80	Crater control	-	Crater / Repeat
Open-circuit voltage	V	65	Insulation class	-	H
Up slope	Sec	0.1~5	Protection class	-	IP21S
Down slope	Sec	0.1~7	Dimension (W*D*H)	mm	304*630*540
Spot time	Sec	0.1~5	Net Weight	kg	31



FT-320

Application

Compatible with automated welding
Industrial equipment manufacturing
Sheet metal fabrication \ Stainless steel processing
Pipeline manufacturing \ Shipbuilding and repair

Features

Inverter technology for energy-efficient
Thermal Overload Protection
Multiple welding modes available
Simple and easy to operate
Equipped with full pulse adjustment function
Built-in multiple adjustable arc characteristics
Supports contact arc ignition and remote welding current control



Specification

Input Power	V	-	Pre flow time	Sec	0.2~5
		380 V ,3Φ	Post flow time	Sec	2~15
Input voltage range	%	±15%	Pulse current	A	5~320
Input frequency	HZ	50 & 60	Pulse frequency	HZ	High: 14~500
Rated input capacity	KVA	12.5			-
	KW	10	Low: 0.4~14		
Rated output	V	TIG: 22.8	Pulse Ratio Width	%	20~80
		STICK: 29.2	Duty cycle	-	320A / 50%
A	TIG: 320	-		226A / 100%	
	STICK: 230	Water cooler control	-	✓	
Welding amperage range	A	TIG: 5~320	Clean	-	-
		STICK: 5~230	Gas check	-	✓
Efficiency	%	78	Crater control	-	Crater / Repeat
Open-circuit voltage	V	62	Insulation class	-	H
Up slope	Sec	0.1~5	Protection class	-	IP21S
Down slope	Sec	0.1~7	Dimension (W*D*H)	mm	270*580*480
Spot time	Sec	0.1~5	Net Weight	kg	32.6



FT-402

Application

Industrial Applications \ Aerospace
Pressure vessel \ Pipe & tube fabrication
Food process \ Vacuum equipment

Features

Inverter technology for energy-efficient
Thermal Overload Protection
Easy to set up and operate
Pulse function flexible adjustable
4-segment arc control (S-hard/hard/soft/S-soft)
Provide lift arc start
Provide 10 pin receptacle for welding current remote control
Multifunction include TIG pulse,crater,repeat ,Spot,MMA(STICK) etc.



Specification

Input Power	V	220V,1/3Φ	Pre flow time	Sec	0.2~5
		380/415V,3Φ	Post flow time	Sec	2~15
Input voltage range	%	±15%	Pulse current	A	10~400
Input frequency	HZ	50 & 60	Pulse frequency	HZ	High: 14~500
Rated input capacity	KVA	13.3			-
	KW	12.3	Low: 0.4~14		
Rated output	V	TIG: 26	Pulse Ratio Width	%	20~80
		STICK: 30	Duty cycle	-	400A / 80%
	A	TIG: 400		-	360A / 100%
		STICK: 250	Water cooler control	-	✓
Welding amperage range	A	TIG: 10~400	Clean	-	-
		STICK: 10~250	Gas check	-	✓
Efficiency	%	85	Crater control	-	Crater / Repeat
Open-circuit voltage	V	62	Insulation class	-	H
Up slope	Sec	0.1~5	Protection class	-	IP21S
Down slope	Sec	0.1~5	Dimension (W*D*H)	mm	410*510*620
Spot time	Sec	0.1~5	Net Weight	kg	54.6



FT-500

Application

Industrial Applications \ Aerospace
Pressure vessel \ Pipe & tube fabrication
Food process \ Vacuum equipment

Features

Inverter technology for energy-efficient
Thermal Overload Protection
Easy to set up and operate
Pulse function flexible adjustable
4-segment arc control (S-hard/hard/soft/S-soft)
Provide lift arc start
Provide 10 pin receptacle for welding current remote control
Multifunction include TIG pulse,crater,repeat ,Spot,MMA(STICK) etc.



Specification

Input Power	V	220V,1/3Φ	Pre flow time	Sec	0.2~5
		380/415V,3Φ	Post flow time	Sec	2~25
Input voltage range	%	±15%	Pulse current	A	10~500
Input frequency	HZ	50&60	Pulse frequency	HZ	High: 14~500
Rated input capacity	KVA	21			-
	KW	18.9	Low: 0.4~14		
Rated output	V	TIG: 30	Pulse Ratio Width	%	20~80
		STICK: 36	Duty cycle	-	500A / 60%
	A	TIG: 500		-	420A / 100%
		STICK: 400	Water cooler control	-	✓
Welding amperage range	A	TIG: 10~500	Clean	-	-
		STICK: 10~400	Gas check	-	✓
Efficiency	%	85	Crater control	-	Crater / Repeat
Open-circuit voltage	V	72	Insulation class	-	H
Up slope	Sec	0.1~5	Protection class	-	IP21S
Down slope	Sec	0.1~5	Dimension (W*D*H)	mm	410*510*620
Spot time	Sec	0.1~5	Net Weight	kg	62.6



FT-501

Application

Aerospace industry Pipe & tube fabrication
 Pressure vessel industry
 Medical instruments manufacturing
 Vacuum equipment manufacturing

Features

Inverter technology for energy-efficient
 Thermal Overload Protection
 With special welding function
 PLC control connection support
 0-10V analog interface available to control welding current



Specification

Input Power	V	380V, 3Φ	Open-circuit voltage	V	Narrow Arc 75V
Input voltage range	%	±15%		V	Broad Arc 150V
Input frequency	HZ	50&60	Duty cycle	-	500A/70%
Rated input capacity	KVA	19		-	418A/100%
	KW	17.7	Water cooler control	-	√
Rated output	V	30	Insulation class	-	H
	A	500	Protection class	-	IP21S
Welding amperage range	A	10~500A	Dimension (W*D*H)	mm	600*540*1120
Efficiency	%	85	Net Weight	kg	78.4

DC-1300

Application

Aerospace industry Pipe & tube fabrication
 Pressure vessel industry
 Medical instruments manufacturing
 Vacuum equipment manufacturing

Features

Inverter technology for energy-efficient
 Thermal Overload Protection
 With special welding function
 PLC control connection support
 0-10V analog interface available to control welding current



Specification

Input Power	V	380/415V, 3Φ	Efficiency	%	95
Input voltage range	%	±15%	Open-circuit voltage	V	90
Input frequency	HZ	50&60	Duty cycle	-	1300A / 50%
Rated input capacity	KVA	70.7		-	1000A / 100%
	KW	60.2	Welding Electrode	mm	-
Rated output	V	44	Insulation class	-	H
	A	1300	Protection class	-	IP21S
Welding amperage range	A	10~60V	Dimension (W*D*H)	mm	595*1050*820
		100~1300A	Net Weight	kg	160



AT-301

Application

Industrial equipment manufacturing
Aluminum processing \ Sheet metal fabrication
Pipe & tube fabrication \ Shipbuilding industry

Features

Portable type for on-site use
Inverter technology for energy-efficient
Easy to set up and operate
Built-in adjustable arc properties
AC frequency adjustment for precision control penetration
PLC control connection support
0-10V analog interface available to control welding current
3-stage switching pulse frequency
2T welding function for up/down slope



Specification

Input Power	V	220 V ,1/3Φ	Pre flow time	Sec	0.2~5
		380 V ,3Φ	Post flow time	Sec	2.0~20(±25%)
Input voltage range	%	±15%	Pulse current	A	10~300
Input frequency	HZ	50&60	Pulse frequency	HZ	High: 1.3~500
Rated input capacity	KVA	12.7			Middle: 1.2~45
	KW	8.9			Low: 0.3~13
Rated output	V	TIG: 22	Pulse Ratio Width	%	1~99
		STICK: 30	Duty cycle	-	300A / 40%
	TIG: 300	Water cooler control		-	190A / 100%
	A		STICK: 250	-	✓
Welding amperage range	A	TIG: 10~300	AC Balance	%	20~50
		STICK: 10~250	Gas check	-	✓
Efficiency	%	74	Crater control	-	Crater / Repeat/Spot /Special 2T
Open-circuit voltage	Vdc	DC:70 / AC:-65	Insulation class	-	H
Up slope	Sec	0.1(±20%)~10(±20%)	Protection class	-	IP21S
Down slope	Sec	0.1(±20%)~10(±20%)	Dimension (W*D*H)	mm	305*635*565
Spot time	Sec	0.2~10	Net Weight	kg	49

AT-350R

Application

Heavy & Precision fabrication
Heavy fabrication \ Pipe and tube fabrication
Aerospace \ Marine Fabrication & Repair
Aluminum fabrication

Features

Portable type for on-site use & Easy to set up and operate
Inverter technology & Smart fan control for energy-efficient
Thermal Overload Protection
4-segment arc control(S-hard/hard/soft/S-soft)
Cold welding
Full digital touch screen control
Pulse sequence flexible adjustable
Memorable program 0-99 groups
Provide 10 pin receptacle for welding current remote control
RS 485 and PLC control connection support



Specification

Input Power	V	220 V ,1/3Φ	Pre flow time	Sec	0.05~5
		380/415 V ,3Φ	Post flow time	Sec	0.1~20
Input voltage range	%	±20%	Pulse current	A	10~350
Input frequency	HZ	50&60	Pulse frequency	HZ	DC: 0.5~2K
Rated input capacity	KVA	12.5			AC: 0.1~100
	KW	11.5			-
Rated output	V	TIG: 24	Pulse Ratio Width	%	10~90
		STICK: 30	Duty cycle	-	350A / 50%
	TIG: 350	Water cooler control		-	221A / 100%
	A		STICK: 300	-	✓
Welding amperage range	A	TIG: 10~350	AC Balance	%	5~50
		STICK: 10~300	Gas check	-	✓
Efficiency	%	83	Crater control	-	Crater / Repeat
Open-circuit voltage	V	66DC / 160AC	Insulation class	-	H
Up slope	Sec	0~10	Protection class	-	IP21S
Down slope	Sec	0~10	Dimension (W*D*H)	mm	300*565*670
Spot time	Sec	0.01~5	Net Weight	kg	54



AT-350

Application

Heavy & Precision fabrication
Heavy fabrication · Pipe and tube fabrication
Aerospace · Marine Fabrication & Repair
Aluminum fabrication

Features

Portable type for on-site use, Easy to set up and operate
Inverter technology for energy-efficient
Thermal Overload Protection
4-segment arc control(S-hard/hard/soft/S-soft)
Pulse sequence flexible adjustable
Pulse Function included
PLC control connection support
0-10V analog interface available to control welding current
3-stage switching pulse frequency
2T welding function for up/down slope



Specification

Input Power	V	220 V, 1/3Φ	Pre flow time	Sec	0.2~5
		380/415 V, 3Φ	Post flow time	Sec	2.0~20(±25%)
Input voltage range	%	±15%	Pulse current	A	10~350
Input frequency	HZ	50&60	Pulse frequency	HZ	High: 1.3~500
Rated input capacity	KVA	13.9			Middle: 1.2~45
	KW	9.98			Low: 0.3~13
Rated output	V	TIG: 24	Pulse Ratio Width	%	1~99
		STICK: 30	Duty cycle	-	350A / 50%
	A	TIG: 350		-	250A / 100%
		STICK: 250	Water cooler control	-	✓
Welding amperage range	A	TIG: 10~350	AC Balance	%	20~50
		STICK: 10~250	Gas check	-	✓
Efficiency	%	84	Crater control	-	Crater/ Repeat/ Special 2T
Open-circuit voltage	Vdc	70DC / -65AC	Insulation class	-	H
Up slope	Sec	0.1(±20%)~10(±20%)	Protection class	-	IP21S
Down slope	Sec	0.1(±20%)~10(±20%)	Dimension (W*D*H)	mm	300*730*570
Spot time	Sec	0.2~10	Net Weight	kg	56.6



AT-400

Application

Industrial equipment manufacturing
Aluminum processing · Sheet metal fabrication
Pipe & tube fabrication · Shipbuilding industry

Features

Portable type for on-site use
Inverter technology for energy-efficient
Easy to set up and operate
Built-in adjustable arc properties
AC frequency adjustment for precision control penetration
PLC control connection support
0-10V analog interface available to control welding current
3-stage switching pulse frequency
2T welding function for up/down slope



Specification

Input Power	V	220 V, 1/3Φ	Pre flow time	Sec	0.2~5
		380 V, 3Φ	Post flow time	Sec	2.0~20(±25%)
Input voltage range	%	±15%	Pulse current	A	10~400
Input frequency	HZ	50&60	Pulse frequency	HZ	High: 1.3~500
Rated input capacity	KVA	18			Middle: 1.2~45
	KW	13.1			Low: 0.3~13
Rated output	V	TIG: 26	Pulse Ratio Width	%	1~99
		STICK: 30	Duty cycle	-	400A / 50%
	A	TIG: 400~405		-	283A / 100%
		STICK: 300	Water cooler control	-	✓
Welding amperage range	A	TIG: 10~405	AC Balance	%	20~50
		STICK: 10~300	Gas check	-	✓
Efficiency	%	80	Crater control	-	Crater / Repeat/Spot /Special 2T
Open-circuit voltage	V	70DC / -65AC	Insulation class	-	H
Up slope	Sec	0.1(±20%)~10(±20%)	Protection class	-	IP21S
Down slope	Sec	0.1(±20%)~10(±20%)	Dimension (W*D*H)	mm	300*730*570
Spot time	Sec	0.2~10	Net Weight	kg	56.6



AT-500

Application

Industrial equipment manufacturing
Aluminum processing \ Sheet metal fabrication
Pipe & tube fabrication \ Shipbuilding industry

Features

Portable type for on-site use
Inverter technology for energy-efficient
Easy to set up and operate
Built-in adjustable arc properties
AC frequency adjustment for precision control penetration
PLC control connection support
0-10V analog interface available to control welding current
3-stage switching pulse frequency
2T welding function for up/down slope



Specification

Input Power	V	220 V, 1/3Φ	Pre flow time	Sec	0.2~5
		380 V, 3Φ	Post flow time	Sec	2.0~20(±25%)
Input voltage range	%	±15%	Pulse current	A	10~500
Input frequency	HZ	50&60	Pulse frequency	HZ	High: 1.3~500
Rated input capacity	KVA	23.35			Middle: 1.2~45
	KW	17.54	Low: 0.3~13		
Rated output	V	TIG: 30	Pulse Ratio Width	%	1~99
		STICK: 36	Duty cycle	-	500A / 60%
A	TIG: 500~505	Water cooler control		-	387A / 100%
	STICK: 400		✓		
Welding amperage range	A	TIG: 10~505	AC Balance	%	20~50
		STICK: 10~400	Gas check	-	✓
Efficiency	%	85	Crater control	-	Crater / Repeat/Spot /Special 2T
Open-circuit voltage	Vdc	70DC / -65AC	Insulation class	-	H
Up slope	Sec	0.1(±20%)~10(±20%)	Protection class	-	IP21S
Down slope	Sec	0.1(±20%)~10(±20%)	Dimension (W*D*H)	mm	300*735*670
Spot time	Sec	0.2~10	Net Weight	kg	74.6

AFT-301

Application

Heavy & Precision fabrication
Heavy fabrication \ Pipe and tube fabrication
Aerospace \ Marine Fabrication & Repair
Aluminum fabrication

Features

Portable type for on-site use
Inverter technology for energy-efficient
Thermal Overload Protection
Easy to set up and operate
4-segment arc control(S-hard/hard/soft/S-soft)
Pulse sequence flexible adjustable
AC frequency adjustment for precision control penetration
Provide 10 pin receptacle for welding current remote control



Specification

Input Power	V	220 V, 1/3Φ	Pre flow time	Sec	0.2~5
		380/415 V, 3Φ	Post flow time	Sec	2~20
Input voltage range	%	±15%	Pulse current	A	10~300
Input frequency	HZ	50&60	Pulse frequency	HZ	High: 7~500
Rated input capacity	KVA	9.4			-
	KW	8.7	Low: 0.4~27		
Rated output	V	TIG: 22	Pulse Ratio Width	%	20~80
		STICK: 30	Duty cycle	-	300A / 40%
A	TIG: 300	Water cooler control		-	190A / 100%
	STICK: 250		✓		
Welding amperage range	A	TIG: 5~300	AC Balance	%	20~50
		STICK: 5~250	Gas check	-	✓
Efficiency	%	76	Crater control	-	Crater / Repeat
Open-circuit voltage	V	80DC / 150AC	Insulation class	-	H
Up slope	Sec	0.1~5	Protection class	-	IP21S
Down slope	Sec	0.1~5	Dimension (W*D*H)	mm	305*660*565
Spot time	Sec	0.1~5	Net Weight	kg	48.6



AFT-303

Application

Heavy & Precision fabrication \ Aerospace
Heavy fabrication \ Pipe and tube fabrication
Marine Fabrication & Repair \ Aluminum fabrication

Features

Inverter technology for energy-efficient
Thermal Overload Protection
Easy to set up and operate
4-segment arc control
(S-hard/hard/soft/S-soft)
Pulse sequence flexible adjustable
Provide 10 pin receptacle for welding current remote control



Specification

Input Power	V	220 V ,1/3Φ	Pre flow time	Sec	0.2~5
		380/415 V ,3Φ	Post flow time	Sec	2~20
Input voltage range	%	±15%	Pulse current	A	10~300
Input frequency	HZ	50&60	Pulse frequency	HZ	High: 7.5~500
Rated input capacity	KVA	9.4			Low: 0.4~27
	KW	8.7	Pulse Ratio Width	%	20~80
Rated output	V	TIG: 22			Duty cycle
	A	TIG: 300	250A / 100%		
Welding amperage range	A	TIG: 5~300	Water cooler control	-	✓
		STICK: 5~250	AC Balance	%	20~50
Efficiency	%	76	Gas check	-	✓
Open-circuit voltage	V	75DC / 135AC	Crater control	-	Crater / Repeat
Up slope	Sec	0.1~5	Insulation class	-	H
Down slope	Sec	0.1~5	Protection class	-	IP21S
Spot time	Sec	0.1~5	Dimension (W*D*H)	mm	410*510*620
			Net Weight	kg	65.6



AFT-400

Application

Heavy & Precision fabrication
Heavy fabrication \ Pipe and tube fabrication
Aerospace \ Marine Fabrication & Repair
Aluminum fabrication

Features

Inverter technology for energy-efficient
Thermal Overload Protection
Easy to set up and operate
Pulse sequence flexible adjustable
4-segment arc control (S-hard/hard/soft/S-soft)
Provide 10 pin receptacle for welding current remote control



Specification

Input Power	V	220 V ,1/3Φ	Pre flow time	Sec	0.2~5
		380/415 V ,3Φ	Post flow time	Sec	2~15
Input voltage range	%	±15%	Pulse current	A	10~400
Input frequency	HZ	50&60	Pulse frequency	HZ	High: 7.5~500
Rated input capacity	KVA	14.2			Low: 0.4~27
	KW	13.3	Pulse Ratio Width	%	20~80
Rated output	V	TIG: 26			Duty cycle
	A	TIG: 400	350A / 100%		
Welding amperage range	A	TIG: 10~400	Water cooler control	-	✓
		STICK: 10~250	AC Balance	%	10~50
Efficiency	%	78	Gas check	-	✓
Open-circuit voltage	V	75DC / 145AC	Crater control	-	Crater / Repeat
Up slope	Sec	0.1~5	Insulation class	-	H
Down slope	Sec	0.1~5	Protection class	-	IP21S
Spot time	Sec	0.1~5	Dimension (W*D*H)	mm	410*510*620
			Net Weight	kg	62.6



AFT-500

Application

Heavy & Precision fabrication
Heavy fabrication \ Pipe and tube fabrication
Aerospace \ Marine Fabrication & Repair
Aluminum fabrication

Features

Inverter technology for energy-efficient
Thermal Overload Protection
Easy to set up and operate
Pulse sequence flexible adjustable
4-segment arc control (S-hard/hard/soft/S-soft)
Provide 10 pin receptacle for welding current remote control



Specification

Input Power	V	220 V, 1/3Φ 380/415 V, 3Φ	Pre flow time	Sec	0.2~5
Input voltage range	%	±15%	Post flow time	Sec	2~15
Input frequency	HZ	50&60	Pulse current	A	10~500
Rated input capacity	KVA	22.91	Pulse frequency	HZ	High: 7.5~500
	KW	21.33			Low: 0.4~27
Rated output	V	TIG: 30	Pulse Ratio Width	%	20~80
		STICK: 36	Duty cycle	-	500A / 60%
	A	TIG: 500		390A / 100%	
Welding amperage range	A	STICK: 400	Water cooler control	-	✓
		TIG: 10~500	AC Balance	%	20~50
Efficiency	%	70	Gas check	-	✓
			Crater control	-	Crater / Repeat
Open-circuit voltage	V	67DC / 120AC	Insulation class	-	H
Up slope	Sec	0.1~5	Protection class	-	IP21S
Down slope	Sec	0.1~5	Dimension (W*D*H)	mm	445*610*550
Spot time	Sec	0.1~5	Net Weight	kg	80



Digital Automation Controller

Application

Heavy & Precision fabrication \ Heavy fabrication
Pipe and tube fabrication \ Aviation industry \ electronics industry
Automotive industry

Features

RS485-Modbus Communications
Multi-set analog controlled pulse parameters
TIG connection to automation equipment
Spot welding function to cold welding effect level
Control parameter dataization



Specifications

Name	Digital Automation Controller
Model	Cold Welding Control
Voltage	AC 100~220V - 50/60HZ
Power	15W
Frequency	1~20HZ
Applicable	All argon welders
Operation Mode	Argon Welding - Spot Welding - Continuous Spot Welding
Time Mode	ON Time : 1~1000ms OFF Time : 1~1000ms
Frequency mode	Pulse frequency : 1~20 Hz
	Pulse duty cycle : 5~95%
Dimensions (W*D*H)	215*60*115mm
Weight	430g



PT-30

Application

Aerospace industry \ Pressure vessel industry
Pipe & tube fabrication
Medical instruments manufacturing

Features

Inverter technology for energy-efficient
Thermal Overload Protection
Multiple welding modes can be selected(Spot/Crater/Repeat)
Pulse Function included, 3-stage switching pulse frequency
2T welding function for up/down slope
PLC control connection support
0~10V analog interface available to welding current
Complete plasma gas sequence control
Pilot arc current 1-30A adjustable
Abnormal signal warning design



Specification

Input Power	V	220 V ,1/3Φ	Pre flow time	Sec	0.2~5
		380/415 V ,3Φ	Post flow time	Sec	2~15
Input voltage range	%	±15%	Pulse current	A	0~30
Input frequency	HZ	50&60	Pulse frequency	HZ	High: 1.3~500
Rated input capacity	KVA	11.42			Middle: 1.2~47
	KW	9.71			Low: 0.7~27
Rated output	V	DC ARC: 21.2	Pulse Ratio Width	%	1~99
		DC TIG: 21.2	Duty cycle	-	30A / 100%
	A	DC ARC: 30		-	-
		DC TIG: 30	Water cooler control	-	✓
Welding amperage range	A	DC ARC: 0~10	Clean	-	-
		DC TIG:0~30	Gas check	-	✓
Efficiency	%	85	Crater control	-	Crater/ Repeat
Open-circuit voltage	V	75±10	Insulation class	-	H
Up slope	Sec	0.2~10	Protection class	-	IP21S
Down slope	Sec	0.2~10	Dimension (W*D*H)	mm	386*716*643
Spot time	Sec	0.2~10	Net Weight	kg	55



PT-500

Application

Aerospace industry \ Pressure vessel industry
Pipe & tube fabrication
Medical instruments manufacturing
Vacuum equipment manufacturing

Features

Inverter technology for energy-efficient
Thermal Overload Protection
Multiple welding modes can be selected(Spot/Crater/Repeat)
Pulse Function included, 3-stage switching pulse frequency
2T welding function for up/down slope
PLC control connection support
0~10V analog interface available to welding current
Complete plasma gas sequence control
Pilot arc current 1-30A adjustable
Abnormal signal warning design



Specification

Input Power	V	220 V ,3Φ	Pulse frequency	HZ	High: 1.3~500
		380/415 V ,3Φ			Middle: 1.2~45
Input voltage range	%	±15%	Pulse Ratio Width	%	Low: 0.3~13
Input frequency	HZ	50&60			1~99
Rated input capacity	KVA	29.47	Duty cycle	-	500A / 70%
	KW	23.28			420A / 100%
Rated output	V	TIG: 40	Pilot Arc Current Selection	-	Single / Continuous
		ARC: 21.2	Pulse current	A	10~500
	A	TIG: 500	Cooling Water Flow Rate	LPM	1.2~12
		ARC: 30	Plasma Gas Flow Rate Range	LPM	0.1~1.0
Welding amperage range	A	TIG: 10~500	Shielding Gas Flow Rate Range	LPM	2~25
		ARC: 0~30	Gas check	-	✓
Efficiency	%	85	Crater control	-	Crater/ Repeat / Spot /Special 2T
Open-circuit voltage	V	75±10	Insulation class	-	H
Up slope	Sec	0.2~10	Protection class	-	IP21S
Down slope	Sec	0.2~10	Dimension (W*D*H)	mm	506*716*923
Spot time	Sec	0.2~10	Net Weight	kg	95



PAW-50

Application

Aerospace industry Pipe & tube fabrication
 Pressure vessel industry
 Medical instruments manufacturing
 Vacuum equipment manufacturing

Features

Inverter technology for energy-efficient
 Thermal Overload Protection
 Abnormal Signal Alarm Design
 Arc current 0.2-25A adjustable
 0-10V analog interface available to control welding current
 2-stage switching pulse frequency
 Complete plasma gas sequence control
 With special welding function, perfect PLC control contact
 Various welding modes optional, with full pulse wave adjustment function



Specification

Input voltage range	V	220 V ,1Φ	Shield Gas Pre flow time	Sec	0.1~2.5
		-	Shield Gas Post flow time	Sec	2~25
Input voltage range	%	±15%	Spot time	Sec	0.1~5
Input frequency	HZ	50&60	Pulse current	A	1~50
Rated input capacity	KVA	1.26	Pulse frequency	HZ	High: 0.4~14
	KW	0.87			-
Rated output	V	12	Pulse frequency	%	Low: 14~500
	A	50			20~80
Welding amperage range	A	Main Arc 0.2~50	Duty cycle	-	50A / 100%
		Arc 0.2~25			-
Efficiency	%	68.7	Water cooler control	-	✓
Open-circuit voltage	V	Main Arc 65	Gas check	-	✓
		Arc 120	Crater control	-	Crater/ Repeat/SPOT
Up slope	Sec	0.1~5	Insulation class	-	H
Down slope	Sec	0.1~5	Protection class	-	IP21S
Plasma Gas Pre flow time	Sec	0.1~2.5	Dimension (W*D*H)	mm	550*395*760
Plasma Gas Post flow time	Sec	0.5~12	Net Weight	kg	55.6



PAW-200

Application

Aerospace industry Pipe & tube fabrication
 Pressure vessel industry
 Medical instruments manufacturing
 Vacuum equipment manufacturing

Features

Inverter technology for energy-efficient
 Thermal Overload Protection
 Abnormal Signal Alarm Design
 Arc current 1-25A adjustable
 0-10V analog interface available to control welding current
 2-stage switching pulse frequency
 Complete plasma gas sequence control
 With special welding function, perfect PLC control contact
 Various welding modes optional, with full pulse wave adjustment function



Specification

Input voltage range	V	220 V ,1/3Φ	Shield Gas Pre flow time	Sec	0.1~2.5
		-	Shield Gas Post flow time	Sec	2~25
Input voltage range	%	±15%	Spot time	Sec	0.1~5
Input frequency	HZ	50&60	Pulse current	A	4~200
Rated input capacity	KVA	5	Pulse frequency	HZ	High: 0.4~14
	KW	4			-
Rated output	V	18	Pulse frequency	%	Low: 14~500
	A	200			20~80
Welding amperage range	A	Main Arc 4~200	Duty cycle	-	200A / 100%
		Arc 1~25			-
Efficiency	%	-	Water cooler control	-	✓
Open-circuit voltage	V	Main Arc 155	Gas check	-	✓
		Arc 120	Crater control	-	Crater/ Repeat/SPOT
Up slope	Sec	0.2~5	Insulation class	-	H
Down slope	Sec	0.2~5	Protection class	-	IP21S
Plasma Gas Pre flow time	Sec	0.1~2.5	Dimension (W*D*H)	mm	550*395*760
Plasma Gas Post flow time	Sec	0.5~12	Net Weight	kg	68.6



PAW-500

Application

Aerospace industry Pipe & tube fabrication
Pressure vessel industry
Medical instruments manufacturing
Vacuum equipment manufacturing

Features

Inverter technology for energy-efficient
Thermal Overload Protection
Abnormal Signal Alarm Design
Arc current 1-30A adjustable
0-10V analog interface available to control welding current
2-stage switching pulse frequency
Complete plasma gas sequence control
With special welding function, perfect PLC control contact
Various welding modes optional, with full pulse wave adjustment function



Specification

Input voltage range	V	380 V ,3Φ	Shield Gas Pre flow time	Sec	0.1~2.5
		-	Shield Gas Post flow time	Sec	2~25
Input voltage range	%	±15%	Spot time	Sec	0.1~5
Input frequency	HZ	50&60	Pulse current	A	5~500
Rated input capacity	KVA	18.5	Pulse frequency	HZ	High: 0.4~14
	KW	17.2			-
Rated output	V	30	Pulse frequency	%	Low: 14~500
	A	500			20~80
Welding amperage range	A	Main Arc5~500	Duty cycle	-	500A / 100%
		Arc1~30			-
Efficiency	%	87	Water cooler control	-	✓
Open-circuit voltage	V	Main Arc143	Gas check	-	✓
		Arc103	Crater control	-	Crater/ Repeat/SPOT
Up slope	Sec	0.1~5	Insulation class	-	H
Down slope	Sec	0.1~5	Protection class	-	IP21S
Plasma Gas Pre flow time	Sec	0.1~2.5	Dimension (W*D*H)	mm	600*540*1120
Plasma Gas Post flow time	Sec	0.5~12	Net Weight	kg	121.6



PAW-501

Application

Aerospace industry Pipe & tube fabrication
Pressure vessel industry
Medical instruments manufacturing
Vacuum equipment manufacturing

Features

Inverter technology for energy-efficient
Thermal Overload Protection
Abnormal Signal Alarm Design
PLC control connection support
Arc current 1-30A adjustable
0-10V analog interface available to control welding current



Specification

Input voltage range	V	380 V ,3Φ	Shield Gas Pre flow time	Sec	-
		-	Shield Gas Post flow time	Sec	-
Input voltage range	%	±15%	Spot time	Sec	-
Input frequency	HZ	50&60	Pulse current	A	-
Rated input capacity	KVA	19	Pulse frequency	HZ	-
	KW	17.7			-
Rated output	V	30	Pulse frequency	%	-
	A	500			-
Welding amperage range	A	Main Arc 1~500	Duty cycle	-	500A / 70%
		Arc 1~30			418A / 100%
Efficiency	%	85	Water cooler control	-	✓
Open-circuit voltage	V	Main Arc 143	Gas check	-	-
		Arc 103	Crater control	-	Crater
Up slope	Sec	-	Insulation class	-	H
Down slope	Sec	-	Protection class	-	IP21S
Plasma Gas Pre flow time	Sec	-	Dimension (W*D*H)	mm	600*540*1120
Plasma Gas Post flow time	Sec	-	Net Weight	kg	89.6



ARCO 1680

Application

Portable DIY & On-Site Repairs
recision Thin Sheet Fabrication
Signage & Advertising Fabrication

Features

- Compact and lightweight, convenient for on-site operations.
- Inverter design for high efficiency and energy saving, with built-in overheat and overload protection.
- Easy to operate and user-friendly, with smooth and stable wire feeding.
- Supports CC/CV control modes, compatible with both CO₂ and manual welding.
- Adjustable inductance control for high-efficiency welding on thin materials.
- Low spatter, effectively improving production efficiency.

“
Designed for 5KG Wire Spools
Efficient Thin Sheet Welding
”



Specification

Input Power	V	220V	Duty cycle	-	130A / 60%
		1Φ			101A / 100%
Input voltage range	%	±15%	Pre flow time	Sec	-
Input frequency	HZ	50&60	Post flow time	Sec	-
Rated input capacity	KVA	5.64	Mig wire	mm	Φ0.6
	KW	3.16			Φ0.9
Rated output	V	16~20.5	Suggested welding depth	mm	0.5<
Welding amperage range	A	MIG :40~130	Insulation class	-	F
		MMA:20~130	Protection class	-	IP21S
Efficiency	%	84	Dimension (W*D*H)	mm	230*475*391
Open-circuit voltage	V	50±5	Net Weight	Kg	14.5

BCM-200

Application

Maintenance and repair \ Sheet metal fabrication
General fabricators \ Plant maintenance
General manufacturing

Features

- Lightweight and portability for outside job
- Inverter technology for energy-efficient
- Thermal Overload Protection
- Easy to set up and operate
- WIRE FEEDER is included in the machine.Precision wire speed control for all medium and heavy industries elding applications
- Inductance adjustment for precision control penetration
- Low spatter welding & high productivity



Specification

Input Power	V	220V, 1Φ	Duty cycle	-	200A / 60%
		-			-
Input voltage range	%	±15%	Pre flow time	Sec	-
Input frequency	HZ	50&60	Post flow time	Sec	-
Rated input capacity	KVA	8.86	Mig wire	mm	Φ0.8, Φ1.0
	KW	5.62			-
Rated output	V	24	Suggested welding depth	mm	≥0.8
	A	200	Insulation class	-	F
Welding amperage range	A	50~200	Protection class	-	IP21S
Efficiency	%	85	Dimension (W*D*H)	mm	264*500*430
Open-circuit voltage	V	51	Net Weight	Kg	26



BCM-250EF

Application

Maintenance and repair · Sheet metal fabrication
General fabricators · Plant maintenance
General manufacturing

Features

Lightweight and portability for outside job
Inverter technology for energy-efficient
Thermal Overload Protection
Easy to set up and operate
Precision wire speed control for all medium and heavy industries elding applications
Inductance adjustment for precision control penetration
Low spatter welding & high productivity



Specification

Input Power	V	220V, 1/3Φ	Duty cycle	-	250A / 60%
		380/415V, 3Φ			190A / 100%
Input voltage range	%	±15%	Pre flow time	Sec	-
Input frequency	HZ	50&60	Post flow time	Sec	-
Rated input capacity	KVA	10.4	Mig wire	mm	Φ0.8, Φ1.0
	KW	7.8			Φ1.2
Rated output	V	26.5	Suggested welding depth	mm	0.8<
	A	250	Insulation class	-	F
Welding amperage range	A	50~250	Protection class	-	IP21S
Efficiency	%	85	Dimension (W*D*H)	mm	230*505*245
Open-circuit voltage	V	51	Net Weight	Kg	18

BCM-251

Application

Sheet metal fabrication · Shipbuilding industry
Bridge construction industry · Construction industry
Automobile manufacturing · Steel structure fabrication

Features

portability for outside job, Easy to set up and operate
Inverter technology for energy-efficient
Thermal Overload Protection
Stable and uniform wire feeding speed
Inductance control for adjustable penetration
Equipped with manual welding function
Low spatter welding & high productivity



Specification

Input Power	V	-	Duty cycle	-	250A / 60%
		380V, 3Φ			190A / 100%
Input voltage range	%	±15%	Pre flow time	Sec	-
Input frequency	HZ	50&60	Post flow time	Sec	-
Rated input capacity	KVA	10.4	Mig wire	mm	Φ0.8, Φ1.0
	KW	7.8			Φ1.2
Rated output	V	26.5	Suggested welding depth	mm	0.8<
	A	250	Insulation class	-	H
Welding amperage range	A	50~250	Protection class	-	IP21S
Efficiency	%	85	Dimension (W*D*H)	mm	380*700*800
Open-circuit voltage	V	51	Net Weight	Kg	39



ARCO 3000

Designed for Automotive Repair
All-in-One Design, Plug & Play

Application

Sheet Metal Fabrication
Signage Industry
Automotive Manufacturing
Furniture Manufacturing

Features

Built-in wire feeder & rear gas cylinder trolley for easy mobility.
Inverter design with high efficiency and overheat / overload protection.
Easy operation with smooth and stable wire feeding.
CC/CV modes supported, compatible with CO₂ and MMA welding.
Adjustable inductance for efficient thin sheet welding.
Low spatter to enhance productivity.



Specification

Input Power	V	220V	Duty cycle	-	250A / 60%
		1Φ			194A / 100%
Input voltage range	%	±15%	Pre flow time	Sec	-
Input frequency	HZ	50&60	Post flow time	Sec	-
Rated input capacity	KVA	12.26	Mig wire	mm	Φ0.9
	KW	7.85			Φ1.0
Rated output	V	16~26.5	Suggested welding depth	mm	0.8<
Welding amperage range	A	MIG :40~250	Insulation class	-	F
		MMA:20~250	Protection class	-	IP21S
Efficiency	%	84	Dimension (W*D*H)	mm	400*803*685
Open-circuit voltage	V	50±5	Net Weight	Kg	38

BEM-350

Application

Maintenance and repair · Sheet metal fabrication
General fabricators · Plant maintenance
General manufacturing

Features

Portable type for on-site use
Inverter technology for energy-efficient
Thermal Overload Protection
Easy to set up and operate
welding applications
MMA function included
Inductance adjustment for precision control penetration
Low spatter welding & high productivity
Precision wire speed control for all medium and heavy industries



Specification

Input Power	V	220V, 1/3Φ	Duty cycle	-	350A / 60%
		380/415V, 3Φ			270A / 100%
Input voltage range	%	±15%	Pre flow time	Sec	0.005
Input frequency	HZ	50&60	Post flow time	Sec	0.07
Rated input capacity	KVA	18.5	Mig wire	mm	Φ0.8, Φ1.0
	KW	13.11			Φ1.2
Rated output	V	31.5	Suggested welding depth	mm	0.8<
	A	350	Insulation class	-	H
Welding amperage range	A	50~350	Protection class	-	IP21S
Efficiency	%	86	Dimension (W*D*H)	mm	302*610*455
Open-circuit voltage	V	50	Net Weight	Kg	34.6



DM-400R

Application

Ship and boat building 、Automotive/Transportation equipment
Heavy equipment manufacturing 、Structural steel fabrication
Tank/Pressure vessel fabrication

Features

Multiple functions: pulse gas shielded / welding / double pulse gas shielded welding, TIG & pulse welding, manual welding.

Can weld carbon steel, aluminum, and other materials and wire diameter from 0.8mm ~ 1.6mm.

Using digital control, parameter can be preset. It can store 10 sets of welding parameters.

The welding process is divided into two steps, four steps and special four steps.

Optional simulation communication module can be integrated into automatic welding or robot welding equipment.



DM-400RS

Application

Ship and boat building 、Automotive/Transportation equipment
Heavy equipment manufacturing 、Structural steel fabrication
Tank/Pressure vessel fabrication

Features

Multiple functions: pulse gas shielded / welding / double pulse gas shielded welding, TIG & pulse welding, manual welding.

Can weld carbon steel, aluminum, and other materials and wire diameter from 0.8mm ~ 1.6mm.

Optimizing Welding Performance of Carbon Steel

Using digital control, parameter can be preset. It can store 10 sets of welding parameters.

The welding process is divided into two steps, four steps and special four steps.

Optional simulation communication module can be integrated into automatic welding or robot welding equipment.



Specification

Input Power	V	220V, 3Φ	Duty cycle	-	400A / 60%
		380/415V, 3Φ			310A / 100%
Input voltage range	%	±15%	Pre flow time	Sec	0~3.0
Input frequency	HZ	50&60	Post flow time	Sec	0~20.0
Rated input capacity	KVA	20.5	Mig wire	mm	Φ0.8, Φ1.0
	KW	16			Φ1.2, Φ1.6
Rated output	V	34	Suggested welding depth	mm	0.8<
	A	400	Insulation class	-	H
Welding amperage range	A	50~400	Protection class	-	IP21S
Efficiency	%	86	Dimension (W*D*H)	mm	300*610*535
Open-circuit voltage	V	70(+5,-2)	Net Weight	Kg	45

Specification

Input Power	V	220V, 3Φ	Duty cycle	-	400A / 60%
		380/415V, 3Φ			310A / 100%
Input voltage range	%	±15%	Pre flow time	Sec	0~3.0
Input frequency	HZ	50&60	Post flow time	Sec	0~20.0
Rated input capacity	KVA	20.5	Mig wire	mm	Φ0.8, Φ1.0
	KW	16			Φ1.2, Φ1.6
Rated output	V	34	Suggested welding depth	mm	0.8<
	A	400	Insulation class	-	H
Welding amperage range	A	50~400	Protection class	-	IP21S
Efficiency	%	86	Dimension (W*D*H)	mm	300*610*535
Open-circuit voltage	V	70(+5,-2)	Net Weight	Kg	45



DM-400RP

Low Spatter | High Speed
Multi-Material Compatibility
One Machine, Every Metal.

Application

Sheet Metal Fabrication · Shipbuilding · Wind Power Generation
Bridge Construction · Construction & Civil Engineering ·
Automotive Manufacturing · Steel Structure Processing

Features

Advanced IGBT Inverter: Energy-efficient with minimized copper and iron loss.
Multi-Material Mastery: One-stop solution for Aluminum, Stainless, and Carbon Steel.
Ultra-Low Spatter: Precision digital droplet control for clean, grind-free welds.
Integrated Multi-Process: Supports DC / Pulse / Double Pulse for versatile sheet metal tasks.
10-Channel Memory: Instant recall of parameters for rapid thickness/wire changes.
Closed-Loop Feedback: Maintains stable arc even with extra-long torches.
Perfect Root Pass: Engineered for precision root welding and gap bridging.
Hyper-Arc Technology: Deep penetration for high-speed welding of medium-to-thick plates.
Full Digital Control: Intuitive panel on wire feeder for seamless on-the-fly adjustment.



Specification

Input Power	V	220V, 3Φ	Duty cycle	-	400A / 60%
		380/415V, 3Φ			310A / 100%
Input voltage range	%	±15%	Pre flow time	Sec	0.00~9.99
Input frequency	HZ	50&60	Post flow time	Sec	0.00~9.99
Rated input capacity	KVA	23	Mig wire	mm	Φ0.8, Φ1.0
	KW	17.4			Φ1.2, Φ1.6
Rated output	V	34	Suggested welding depth	mm	0.8<
	A	400	Insulation class	-	H
Welding amperage range	A	20~400	Protection class	-	IP21S
Efficiency	%	80	Dimension (W*D*H)	mm	307*590*600
Open-circuit voltage	V	70	Net Weight	Kg	52.5



DM-500RP

Low Spatter | High Speed
Multi-Material Compatibility
One Machine, Every Metal.

Application

Sheet Metal Fabrication · Shipbuilding · Wind Power Generation
Bridge Construction · Construction & Civil Engineering ·
Automotive Manufacturing · Steel Structure Processing

Features

Advanced IGBT Inverter: Energy-efficient with minimized copper and iron loss.
Multi-Material Mastery: One-stop solution for Aluminum, Stainless, and Carbon Steel.
Ultra-Low Spatter: Precision digital droplet control for clean, grind-free welds.
Integrated Multi-Process: Supports DC / Pulse / Double Pulse for versatile sheet metal tasks.
10-Channel Memory: Instant recall of parameters for rapid thickness/wire changes.
Closed-Loop Feedback: Maintains stable arc even with extra-long torches.
Perfect Root Pass: Engineered for precision root welding and gap bridging.
Hyper-Arc Technology: Deep penetration for high-speed welding of medium-to-thick plates.
Full Digital Control: Intuitive panel on wire feeder for seamless on-the-fly adjustment.



Specification

Input Power	V	220V, 3Φ	Duty cycle	-	500A / 60%
		380/415V, 3Φ			385A / 100%
Input voltage range	%	±15%	Pre flow time	Sec	0.00~9.99
Input frequency	HZ	50&60	Post flow time	Sec	0.00~9.99
Rated input capacity	KVA	28	Mig wire	mm	Φ0.8, Φ1.0
	KW	22.6			Φ1.2, Φ1.6
Rated output	V	39	Suggested welding depth	mm	0.8<
	A	500	Insulation class	-	H
Welding amperage range	A	20~500	Protection class	-	IP21S
Efficiency	%	82	Dimension (W*D*H)	mm	307*590*600
Open-circuit voltage	V	70	Net Weight	Kg	50.6



BEM-500

Application

Maintenance and repair · Sheet metal fabrication
General fabricators · Plant maintenance
General manufacturing

Features

Inverter technology for energy-efficient
Thermal Overload Protection
Easy to set up and operate
MMA function included
Gouging function included
industries welding applications
Precision wire speed control for all medium and heavy
Inductance adjustment for precision control penetration
Low spatter welding & high productivity



Specification

Input Power	V	220V, 3Φ	Duty cycle	-	500A / 70%
		380/415V, 3Φ			420A / 100%
Input voltage range	%	±15%	Pre flow time	Sec	0.005
Input frequency	HZ	50&60	Post flow time	Sec	0.07
Rated input capacity	KVA	29.4	Mig wire	mm	Φ0.8, Φ1.0
	KW	21.5			Φ1.2, Φ1.6
Rated output	V	39	Suggested welding depth	mm	0.8<
	A	500	Insulation class	-	H
Welding amperage range	A	50~500	Protection class	-	IP21S
Efficiency	%	88.8	Dimension (W*D*H)	mm	420*650*580
Open-circuit voltage	V	70	Net Weight	Kg	61

DM-550R

Application

Industrial Applications · Aerospace
Pressure vessel · Pipe & tube fabrication
Food process · Vacuum equipment

Features

multi-function: pulse & double pulse & CO2 MIG welding,
constant current argon arc welding, pulse TIG welding,
manual welding.
Welding wire diameter - 0.8mm, 1.0mm, 1.2mm, 1.6mm.
Digital control, parameter preset for welding current,
voltage, welding material, wire diameter, etc.
Can store 10 sets of welding data. The welding function
included two steps, four steps and special four steps.
Optional simulation communication module for automatic
welding or robot welding equipment in tegration.



Specification

Input Power	V	220, 3Φ	Duty cycle	-	550A / 60%
		380/415, 3Φ			426A / 100%
Input voltage range	%	±15%	Pre flow time	Sec	0~3.0
Input frequency	HZ	50&60	Post flow time	Sec	0~20.0
Rated input capacity	KVA	32	Mig wire	mm	Φ0.8, Φ1.0
	KW	26			Φ1.2, Φ1.6
Rated output	V	41.5	Suggested welding depth	mm	0.8<
	A	550	Insulation class	-	H
Welding amperage range	A	50~550	Protection class	-	IP21S
Efficiency	%	88	Dimension (W*D*H)	mm	300*760*670
Open-circuit voltage	V	70	Net Weight	Kg	60



BEM-650

Application

Maintenance and repair \ Sheet metal fabrication
General fabricators \ Plant maintenance
General manufacturing

Features

Inverter technology for energy-efficient
Thermal Overload Protection
Easy to set up and operate
MMA function included
Gouging function included
industries welding applications
Precision wire speed control for all medium and heavy
Inductance adjustment for precision control penetration
Low spatter welding & high productivity



Specification

Input Power	V	220V, 3Φ	Duty cycle	-	650A / 80%
		380/415V, 3Φ			580A / 100%
Input voltage range	%	±15%	Pre flow time	Sec	0.005
Input frequency	HZ	50&60	Post flow time	Sec	0.07
Rated input capacity	KVA	44.8	Mig wire	mm	Φ1.0,Φ1.2
	KW	33.6			Φ1.6,Φ2.0
Rated output	V	44	Suggested welding depth	mm	0.8<
	A	650	Insulation class	-	H
Welding amperage range	A	50~650	Protection class	-	IP21S
Efficiency	%	80	Dimension (W*D*H)	mm	420*650*580
Open-circuit voltage	V	80	Net Weight	Kg	67



DM-1000

Application

Maintenance and repair \ Sheet metal fabrication
General fabricators \ Plant maintenance
General manufacturing

Features

Inverter technology for energy-efficient
Thermal Overload Protection
Easy to set up and operate
Precision wire speed control for all medium and heavy
industries welding applications
Inductance adjustment for precision control penetration
MMA function included
Gouging function included
Low spatter welding & high productivity



Specification

Input Power	V	220V, 3Φ	Duty cycle	-	1000A / 80%
		380/415V, 3Φ			800A / 100%
Input voltage range	%	±15%	Pre flow time	Sec	-
Input frequency	HZ	60	Post flow time	Sec	-
Rated input capacity	KVA	52.85	Mig wire	mm	-
	KW	50.21			-
Rated output	V	44	Suggested welding depth	mm	-
	A	1000	Insulation class	-	H
Welding amperage range	A	100~1000	Protection class	-	IP21S
Efficiency	%	88	Dimension (W*D*H)	mm	510*860*970
Open-circuit voltage	V	75±5	Net Weight	Kg	132



DM-1300

Application

Shipbuilding industry , Bridge-building industry
Pressure vessel industry \ Wind power equipment
manufacture & maintenance of steel structures
nuclear power equipment

Features

Inverter technology for energy-efficient
Thermal Overload Protection
Easy to set up and operate
Isolated control circuit board to prevent wind pollution
Compatible with Lincoln Submerged Arc controller
Compatible with Miller Submerged Arc controller
Inductance adjustment for precision control penetration



Specification

Input Power	V	380/415V, 3Φ	Duty cycle	-	1300A / 50%
Input voltage range	%	±15%			1000A / 100%
Input frequency	HZ	50&60	Pre flow time	Sec	-
Rated input capacity	KVA	70.7	Post flow time	Sec	-
	KW	60.2	Mig wire	mm	-
Rated output	V	44			
	A	1300	Suggested welding depth	mm	-
Welding amperage range	A	10~60V	Insulation class	-	H
		100~1300A	Protection class	-	IP23S
Efficiency	%	95	Dimension (W*D*H)	mm	590*960*820
Open-circuit voltage	V	90	Net Weight	Kg	185

DP-50

Application

Shipbuilding industry ,Bridge-building industry
Construction/building Construction
Automotive manufacturing
manufacture & maintenance of steel structures

Features

Lightweight and portability for outside job
Inverter technology for energy-efficient
Thermal Overload Protection
Provides consistent high-speed cutting



Specification

Input Power	V	220V, 1Φ	Duty cycle	-	50A / 40%
		-			32A / 100%
Input voltage range	%	±15%	Pre flow time	Sec	1 (+1, -0.05)
Input frequency	HZ	50&60	Post flow time	Sec	13 (±2)
Rated input capacity	KVA	10.6	Cutting thickness	mm	max 20
	KW	6.8			Recommended 15
Rated output	V	100	Gas check	-	✓
	A	50	Pilot	-	-
Cutting amperage range	A	20~50	Insulation class	-	H
Efficiency	%	82	Protection class	-	IP21S
Open-circuit voltage	V	266	Dimension (W*D*H)	mm	195*450*280
Water cooling	-	-	Net Weight	kg	17



BEP-50

Application

Shipbuilding industry \ Construction/building Construction
 Bridge-building industry \ Automotive manufacturing
 manufacture & maintenance of steel structures

Features

Lightweight and portability for outside job
 Inverter technology for energy-efficient
 Thermal Overload Protection
 Provides consistent high-speed cutting
 Pilot Arc Starting



Specification

Input Power	V	220V, 1Φ	Duty cycle	-	50A / 40%
		-			32A / 100%
Input voltage range	%	±15%	Pre flow time	Sec	1 (+1, -0.05)
Input frequency	HZ	50&60	Post flow time	Sec	13 (±2)
Rated input capacity	KVA	10.6	Cutting thickness	mm	max 20
	KW	6.8			Recommended 15
Rated output	V	100	Gas check	-	✓
	A	50	Pilot	-	✓
Cutting amperage range	A	20~50	Insulation class	-	H
Efficiency	%	82	Protection class	-	IP21S
Open-circuit voltage	V	266	Dimension (W*D*H)	mm	212*400*244
Water cooling	-	-	Net Weight	kg	15



SP-53

Application

Shipbuilding industry ,Bridge-building industry
 Construction/building Construction
 Automotive manufacturing
 manufacture & maintenance of steel structures

Features

Lightweight and portability for outside job
 Inverter technology for energy-efficient
 Thermal Overload Protection
 Provides consistent high-speed cutting



Specification

Input Power	V	220V, 1Φ	Duty cycle	-	50A / 40%
		-			32A / 100%
Input voltage range	%	±15%	Pre flow time	Sec	1 ~1.5
Input frequency	HZ	50&60	Post flow time	Sec	12 (+3)
Rated input capacity	KVA	9.2	Cutting thickness	mm	max 15
	KW	6.2			Recommended 10
Rated output	V	100	Gas check	-	✓
	A	50	Pilot	-	✓
Cutting amperage range	A	10~50	Insulation class	-	H
Efficiency	%		Protection class	-	IP21S
Open-circuit voltage	V	270	Dimension (W*D*H)	mm	215*424*305
Water cooling	-	-	Net Weight	kg	15



DP-60

Application

Automotive \ General Fabrication
Oil & Gas & Foundry \ Marine Fabrication & Repair
Structural Fabrication \ Construction & Field Erection

Features

Lightweight and portability for outside job
Inverter technology for energy-efficient
Thermal Overload Protection
Provides consistent high-speed cutting
Pilot Arc Starting



Specification

Input Power	V	220V, 1/3Φ	Duty cycle	-	60A / 40%
		380/415V,3Φ			40A / 100%
Input voltage range	%	±15%	Pre flow time	Sec	0.5
Input frequency	HZ	50&60	Post flow time	Sec	20
Rated input capacity	KVA	14.1	Cutting thickness	mm	max 30
	KW	9.25			Recommended <15
Rated output	V	104	Gas check	-	✓
	A	60	Pilot	-	✓
Cutting amperage range	A	20~60	Insulation class	-	H
Efficiency	%	82	Protection class	-	IP21S
Open-circuit voltage	V	300	Dimension (W*D*H)	mm	235*555*365
Water cooling	-	-	Net Weight	kg	22



BEP-60

Application

Shipbuilding industry \ Construction/building Construction
Bridge-building industry \ Automotive manufacturing
manufacture & maintenance of steel structures

Features

Lightweight and portability for outside job
Inverter technology for energy-efficient
Thermal Overload Protection
Provides consistent high-speed cutting
Pilot Arc Starting



Specification

Input Power	V	220V, 1/3Φ	Duty cycle	-	60A / 40%
		380/415V,3Φ			40A / 100%
Input voltage range	%	±15%	Pre flow time	Sec	0.5
Input frequency	HZ	50&60	Post flow time	Sec	20
Rated input capacity	KVA	14.1	Cutting thickness	mm	max 30
	KW	9.25			Recommended 20
Rated output	V	104	Gas check	-	✓
	A	60	Pilot	-	✓
Cutting amperage range	A	20~60	Insulation class	-	H
Efficiency	%	82	Protection class	-	IP21S
Open-circuit voltage	V	266	Dimension (W*D*H)	mm	500*230*330
Water cooling	-	-	Net Weight	kg	22



BEP-92

Application

Shipbuilding industry \ Automotive manufacturing
 Bridge-building industry
 Construction/building Construction
 manufacture & maintenance of steel structures

Features

Portable type for on-site use
 Inverter technology for energy-efficient
 Thermal Overload Protection
 Provides consistent high-speed cutting
 Pilot Arc Starting



Specification

Input Power	V	220V, 1/3Φ	Duty cycle	-	90A / 60%
		380/415V,3Φ			70A / 100%
Input voltage range	%	±15%	Pre flow time	Sec	0.5
Input frequency	HZ	50&60	Post flow time	Sec	20
Rated input capacity	KVA	19.94	Cutting thickness	mm	max 40
	KW	15.48			Recommended 20
Rated output	V	116	Gas check	-	✓
	A	90	Pilot	-	✓
Cutting amperage range	A	20~90	Insulation class	-	H
Efficiency	%	87	Protection class	-	IP21S
Open-circuit voltage	V	264	Dimension (W*D*H)	mm	598*300*570
Water cooling	-	-	Net Weight	kg	43.6

AP-90

Application

Shipbuilding industry ,Bridge-building industry
 Construction/building Construction
 Automotive manufacturing
 manufacture & maintenance of steel structures

Features

Portable type for on-site use
 Inverter technology for energy-efficient
 Thermal Overload Protection
 Provides consistent high-speed cutting
 Pilot Arc Starting



Specification

Input Power	V	220V, 1/3Φ	Duty cycle	-	90A / 100%
		380/415V,3Φ			-
Input voltage range	%	+19%,-18%	Pre flow time	Sec	3
Input frequency	HZ	50&60	Post flow time	Sec	20
Rated input capacity	KVA	16.9	Cutting thickness	mm	max 50
	KW	15.08			Recommended 25
Rated output	V	116	Gas check	-	✓
	A	90	Pilot	-	✓
Cutting amperage range	A	20~90	Insulation class	-	H
Efficiency	%	90	Protection class	-	IP21S
Open-circuit voltage	V	265	Dimension (W*D*H)	mm	430*495*630
Water cooling	-	-	Net Weight	kg	55.6



BEP-120

Application

Shipbuilding industry ,Bridge-building industry
Construction/building Construction
Automotive manufacturing
manufacture & maintenance of steel structures

Features

Inverter technology for energy-efficient
Thermal Overload Protection
Pilot Arc Starting
Provides consistent high-speed cutting
Optional water-cooled cutting torch



Specification

Input Power	V	220V, 1/3Φ	Duty cycle	-	120A / 60%
		380/415V,3Φ			90A / 100%
Input voltage range	%	±15%	Pre flow time	Sec	0.5
Input frequency	HZ	50&60	Post flow time	Sec	20
Rated input capacity	KVA	28.3	Cutting thickness	mm	max 45
	KW	21.8			Recommended 35
Rated output	V	160	Gas check	-	✓
	A	120	Pilot	-	✓
Cutting amperage range	A	20~120	Insulation class	-	H
Efficiency	%	88	Protection class	-	IP21S
Open-circuit voltage	V	290	Dimension (W*D*H)	mm	420*650*580
Water cooling	-	✓	Net Weight	kg	61



BEP-160

Application

Shipbuilding industry ,Bridge-building industry
Construction/building Construction
Automotive manufacturing
manufacture & maintenance of steel structures

Features

Inverter technology for energy-efficient
Thermal Overload Protection
Provides consistent high-speed cutting
Pilot Arc Starting
Arc voltage feedback can support AVC
Remote control



Specification

Input Power	V	220V, 1/3Φ	Duty cycle	-	160A / 60%
		380/415V,3Φ			-
Input voltage range	%	±15%	Pre flow time	Sec	0.5
Input frequency	HZ	50&60	Post flow time	Sec	20
Rated input capacity	KVA	41.7	Cutting thickness	mm	max 50
	KW	32			Recommended 35
Rated output	V	180	Gas check	-	✓
	A	160	Pilot	-	✓
Cutting amperage range	A	20~160	Insulation class	-	H
Efficiency	%	92	Protection class	-	IP21S
Open-circuit voltage	V	310	Dimension (W*D*H)	mm	755*430*730
Water cooling	-	✓	Net Weight	kg	94



ARCO 210

Application

Carbon Steel Product Manufacturing
Pipeline Fabrication Industry
Industrial Equipment Manufacturing
Structural Steel Installation for Construction

Features

Compact and lightweight design for easy portability and outdoor operations.

Supports automatic switching between 110V / 220V dual voltage, ideal for light-duty field applications.

Equipped with current preset display for accurate output control and precise adjustment.

Built-in anti-shock (VRD) function enhances operational safety.

Suitable for continuous welding with electrodes up to 3.2mm; 4.0mm electrodes can be used for spot welding, greatly improving efficiency.

“**3.2MM**
110VAC/220VAC”



Specification

Input Power	V	110V,1Φ	Efficiency	%	85
		220V,1Φ			
Input voltage range	%	±15%	Duty cycle	-	190A / 25%
Input frequency	HZ	50&60			95A / 100%
Rated input capacity	KVA	7.8	Welding Electrode	mm	2.6~4.0
	KW	6.3	Insulation class	-	B
Rated output	V	24.4 (110V) 27.6 (220V)	Protection class	-	IP21S
	A	40~110 (110V) 20~190 (220V)	Dimension (W*D*H)	mm	185*400*310
Welding amperage range	A	40~110 (110V) 20~190 (220V)	Net Weight	kg	6.7

ARCO 300

Application

Carbon steel product manufacturing
Bridge construction industry
Pipeline fabrication industry
Industrial equipment manufacturing
Construction industry \ Steel structure processing

Features

Lightweight and compact, ideal for on-site work.

Auto-switching between 220V / 380V / 440V to prevent power connection errors.

VRD safety feature lowers standby voltage for added protection.

Voltage & current displays meet safety inspection needs and ensure welding accuracy.

Easy arc start and adjustable arc force for stable welding on high-tensile and vertical-down applications.

Supports long welds with ≤4.0mm electrodes, and spot welding with 5.0mm under heavy-duty conditions.

“**4.0MM**
220VAC/380VAC/440VAC”



Specification

Input Power	V	220/380/440V,1Φ	Efficiency	%	85
Input voltage range	%	±15%	Open-circuit voltage	V	65V/VRD<20V
Input frequency	HZ	50&60	Duty cycle	-	220A / 25%
Rated input capacity	KVA	9.2			110A / 100%
	KW	7.5	Welding Electrode	mm	2.6~5.0
Rated output	V	28.8	Insulation class	-	F
	A	20~220	Protection class	-	IP21S
Welding amperage range	A	20~220	Dimension (W*D*H)	mm	190*400*350
Arc Force Output Current Range	A	0~100	Net Weight	kg	7.7



BES-300II

“**Professional**”

Application

Carbon steel product fabrication
Bridge and pipe fabrication
Industrial equipment manufacturing

Features

This machine uses an energy-saving inverter with protection from overheating and overload, ensuring stable use.

It has VRD safety, voltage/current display, and anti-stick current to meet jobsite safety needs.

Three arc start modes—adjustable, pulse, and no-current—plus external arc start and soft/hard arc control fit various rods and materials.

External arc force control supports stable welding, even for high-tensile steel and vertical-down welding.

Supports 5.0mm rods and 6.0mm spot welding; ideal for steel, vessels, and pipes.



Specification

Input Power	V	220V, 1/3Φ	Efficiency	%	86
		380/415V, 3Φ	Open-circuit voltage	V	75
Input voltage range	%	±15%	Duty cycle	-	300A / 60%
Input frequency	HZ	50&60			230A / 100%
Rated input capacity	KVA	15.06	Welding Electrode	mm	2.6~5.0
	KW	11.14	Insulation class	-	H
Rated output	V	32	Protection class	-	IP21S
	A	300	Dimension (W*D*H)	mm	215*504*300
Welding amperage range	A	20~300	Net Weight	kg	20

DS-400

“**Professional**”

Application

Carbon steel product fabrication
Bridge and pipe fabrication
Industrial equipment manufacturing

Features

This machine uses an energy-saving inverter with protection from overheating and overload, ensuring stable use.

It has VRD safety, voltage/current display, and anti-stick current to meet jobsite safety needs.

Three arc start modes—adjustable, pulse, and no-current—plus external arc start and soft/hard arc control fit various rods and materials.

External arc force control supports stable welding, even for high-tensile steel and vertical-down welding.

Supports continuous welding with rods up to 6.0mm; boosts efficiency for structural, vessel, and pipeline work.



Specification

Input Power	V	220V, 1/3Φ	Efficiency	%	85
		380 / 415V, 3Φ	Open-circuit voltage	V	75
Input voltage range	%	±15%	Duty cycle	-	400A / 60%
Input frequency	HZ	50&60			310A / 100%
Rated input capacity	KVA	21.99	Welding Electrode	mm	2.6~6.0
	KW	16.93	Insulation class	-	H
Rated output	V	36	Protection class	-	IP21S
	A	300 (1Φ) 400 (3Φ)	Dimension (W*D*H)	mm	300*613*463
Welding amperage range	A	20~400	Net Weight	kg	32



BES-300

Application

Carbon steel product fabrication
Bridge and pipe fabrication
Industrial equipment manufacturing

Features

Lightweight and portability for outside job
Inverter technology for energy-efficient
Thermal Overload Protection
Low spatter
Arc force adjustment for precision control penetration



Specification

Input Power	V	220V, 1/3Φ	Efficiency	%	80
		380/415V, 3Φ	Open-circuit voltage	V	75
Input voltage range	%	±15%	Duty cycle	-	300A / 60%
Input frequency	HZ	50&60		-	230A / 100%
Rated input capacity	KVA	16.16	Welding Electrode	mm	2.6~5.0
	KW	12.01	Insulation class	-	H
Rated output	V	32	Protection class	-	IP21S
	A	300	Dimension (W*D*H)	mm	230*505*280
Welding amperage range	A	20~300	Net Weight	kg	18

BES-400

Application

Carbon steel product fabrication
Bridge and pipe fabrication
Industrial equipment manufacturing

Features

Portable type for on-site use
Inverter technology for energy-efficient
Thermal Overload Protection
Low spatter
Arc force adjustment for precision control penetration



Specification

Input Power	V	220V, 1/3Φ	Efficiency	%	86
		380/415V, 3Φ	Open-circuit voltage	V	70
Input voltage range	%	±15%	Duty cycle	-	400A / 70%
Input frequency	HZ	50&60		-	335A / 100%
Rated input capacity	KVA	24.5	Welding Electrode	mm	2.6~6.0
	KW	16.7	Insulation class	-	H
Rated output	V	36	Protection class	-	IP21S
	A	400	Dimension (W*D*H)	mm	305*610*350
Welding amperage range	A	20~400	Net Weight	kg	27.6



DT-300C

Application

Automated welding equipment,
Industrial Equipment Manufacturing
Sheet Metal /Stainless Steel Processing
Pipeline Manufacturing, Shipbuilding Industry

Features

TIG connection to automation equipment
Spot time from 1 to 1000 ms can be set and adjusted.
Spot welding function to cold welding effect level
RS485-Modbus Communications
Multi-set analog controlled pulse parameters
Control parameter dataization
Inverter technology for energy-efficient
Thermal Overload Protection



Specification

Input Power	V	220 V ,1/3Φ	Pre flow time	Sec	0.2~5
		380/415V,3Φ	Post flow time	Sec	2~20
Input voltage range	%	±15%	Pulse current	A	10~300
Input frequency	HZ	50&60	Pulse frequency	HZ	1~20
Rated input capacity	KVA	11.46			
	KW	8.23	Pulse Ratio Width	%	5~95
Rated output	V	TIG: 22	Duty cycle	-	300A / 40%
	A	TIG: 300			190A / 100%
Welding amperage range	A	TIG: 10~300	Water cooler control	-	✓
			Clean	-	-
			Gas check	-	✓
Efficiency	%	80	Crater control	-	Spot / Stitch Welding
Open-circuit voltage	V	70	Insulation class	-	H
Up slope	Sec	-	Protection class	-	IP21S
Down slope	Sec	-	Dimension (W*D*H)	mm	260*577*503
Spot time	mS	1~1000mS	Net Weight	kg	25



DT-401C

Application

Automated welding equipment,
Industrial Equipment Manufacturing
Sheet Metal /Stainless Steel Processing
Pipeline Manufacturing, Shipbuilding Industry

Features

TIG connection to automation equipment
Spot time from 1 to 1000 ms can be set and adjusted.
Spot welding function to cold welding effect level
RS485-Modbus Communications
Multi-set analog controlled pulse parameters
Control parameter dataization
Inverter technology for energy-efficient
Thermal Overload Protection



Specification

Input Power	V	220 V ,1/3Φ	Pre flow time	Sec	0.2~5
		380/415V,3Φ	Post flow time	Sec	2~20
Input voltage range	%	±15%	Pulse current	A	10~400
Input frequency	HZ	50&60	Pulse frequency	HZ	1~20
Rated input capacity	KVA	15.2			
	KW	10.4	Pulse Ratio Width	%	5~95
Rated output	V	TIG: 26	Duty cycle	-	400A / 70%
	A	TIG: 400			335A / 100%
Welding amperage range	A	TIG: 10~400	Water cooler control	-	✓
			Clean	-	-
			Gas check	-	✓
Efficiency	%	80	Crater control	-	Spot / Stitch Welding
Open-circuit voltage	V	110	Insulation class	-	H
Up slope	Sec	-	Protection class	-	IP21S
Down slope	Sec	-	Dimension (W*D*H)	mm	310*600*650
Spot time	mS	1~1000mS	Net Weight	kg	39.4



40E

“22kg Main Unit + 480g Torch
3.5mm Penetration Depth
Master it in 3 Minutes”

Application

Basic Industries: Hardware, Fixtures, Appliances, Construction

Precision Tech : Electronics, Medical, Instruments, New Energy

Transportation & Heavy Industry : Automotive, Shipbuilding, Aeronautics

Features

- 22kg Ultra-Portable | PC-sized, easy one-hand carry.
- 480g Pro Torch | On-torch remote control for power/wire feed. Max efficiency.
- Instant Start | 24H Non-stop stable output. No preheat.
- Smart Interface | Mastery in 3 mins. Built-in presets for beginners.
- 4-in-1 Versatility | Weld, cut, de-rust, and clean in one machine.
- 3.5mm Deep Penetration | 20%+ gas/material savings. Smooth finish.
- Top 10 Protections | Global Certs: CE, FCC, MD, PL-e. Total safety.



Specification

System & Power	Rated Input Voltage	220V Single Phase, 60Hz	Welding Performance	Wobble Scan Type	Single Motor Scanning Wobble	
	Rated Input Power	2.5kW		Wobble Type	Linear	
	Max. Power Consumption	3.0kW		Wobble Length / Width	0~4.0mm	
	Functional Mode	Welding / Cutting / Cleaning / Rust Removal		Max. Welding Thickness	Stainless / Carbon Steel	3.5mm
	Control Interface	7-inch Touch Screen			Aluminum / Brass	2.5mm
	Dimensions (W*D*H)	230*507*349mm		Cable Length	5M	
	Main Unit Weight	< 22kg		Torch Weight	< 0.48kg	
Laser Performance	Fiber Connector	QBH	Wire Feeding	Wire Diameter	0.8/ 1.0/ 1.2/ 1.6mm	
	Peak Power	1000W		Spool Size	Max. Φ 300mm	
	Rated Laser Output Power	900W ±50		Spool Capacity	SS: 15kg / CS: 20kg	
	Output Laser Wavelength	1080nm		Wire Feeder	Single	
	Output Laser Wavelength	Continuous / Pulse / Spot	Cooling	Cooling Method	Air Cooled	
	Safety Certification	CE, FCC, MD, PL-E		Assist Gas	Nitrogen · Argon	
	Laser Safety Class	Class 4		Gas Input Pressure	0.3~0.8MPa	

50C

“Mobile Design + 480g Torch
5.0mm Depth | Instant Mastery”

Application

Basic Industries: Hardware, Fixtures, Appliances, Construction

Precision Tech : Electronics, Medical, Instruments, New Energy

Transportation & Heavy Industry : Automotive, Shipbuilding, Aerospace & Components

Features

- **Integrated Mobility** : All-in-one chassis (Feeder/Torch/Gas Tank*). High onsite flexibility.*Optional bracket.
- **480g Remote Torch** : Ultralight & Ergonomic. Direct control of Power / Swing / Wire-feed at your fingertips.
- **Run All Day** : Instant start, zero overheating. Stable output for non-stop operation.
- **3-Min Smart Setup** : Expert presets built-in. Achieve professional welds, even for beginners.
- **4-in-1 Multi-Tasking** : One system for Welding, Cutting, Cleaning, and Descaling.
- **5.0mm Deep Fusion** : Superior penetration with 20% less gas and material waste.
- **Global Safety Standards** : CE, FCC, MD, and PL-e certified. Comprehensive operator protection.



Specification

System & Power	Rated Input Voltage	220V Single Phase, 60Hz	Welding Performance	Wobble Scan Type	Single Motor Scanning Wobble	
	Rated Input Power	4.5kW		Wobble Type	Linear	
	Max. Power Consumption	5.0kW		Wobble Length / Width	0~5.5mm	
	Functional Mode	Welding / Cutting / Cleaning / Rust Removal		Max. Welding Thickness	Stainless / Carbon Steel	5.0mm
	Control Interface	7-inch Touch Screen			Aluminum 3.5 / Brass 4.0 / Copper 1.0mm	
	Dimensions (W*D*H)	286*654*579mm		Cable Length	5M	
	Main Unit Weight	< 46kg		Torch Weight	< 0.48kg	
Laser Performance	Fiber Connector	QBH	Wire Feeding	Wire Diameter	0.8/ 1.0/ 1.2/ 1.6mm	
	Peak Power	1300W		Spool Size	Max. Φ 300mm	
	Rated Laser Output Power	1200W ±50		Spool Capacity	SS: 15kg / CS: 20kg	
	Output Laser Wavelength	1080nm		Wire Feeder	Single	
	Output Laser Wavelength	Continuous / Pulse / Spot	Cooling	Cooling Method	Air Cooled	
	Safety Certification	CE, FCC, MD, PL-E		Assist Gas	Nitrogen · Argon	
	Laser Safety Class	Class 4		Gas Input Pressure	0.3~0.8MPa	



HW1500

Application

General Industry : Sheet metal cabinets / kitchen & bath / construction / hardware tools

Precision Technology : Electronics / medical / molds / new energy

Heavy Transport : Automotive / aerospace / rail equipment

Features

Core Brand : Raycus laser + Suplaser torch + S&A-temp chiller for high output, long-term stability, and industrial reliability.

4-in-1 Function : Welding / Cutting / Cleaning / Rust Removal—fast switching for flexible, efficient production.

High-Precision Welding : Small heat-affected zone, smooth welds, reducing grinding and post-processing.

Multi-Material : Stainless steel, carbon steel, aluminum; stable welding from thin to medium-thick plates.

Smart Wire Feeding : Ensures uniform and high-strength welds.

Energy-Saving & Safe : Low power consumption, touch operation, multiple protections for reliable performance.



Specification

System & Power	Rated Input Voltage	220V 1Φ, 50/60Hz	Welding Performance	Torch Brand	Suplaser	
	Rated Input Power	9kW		Wobble Scan Type	Single Motor Scanning Wobble	
	Max Power Consumption	< 4.5kW		Wobble Type	Linear	
	Control System	Suplaser System		Wobble Length / Width	Welding : 0~8mm	
	Functional Mode	Welding / Cutting / Cleaning / Rust Removal			Cleaning : 0~120mm	
	Control Interface	7-inch Touch Screen		Cable Length	10M	
Laser Performance	Laser Source Brand	Raycus	Wire Feeding	Torch Weight	0.75kg	
	Fiber Connector	QBH		Wire Feeder	Single	
	Rated Laser Output Power	1500W ±50		Wire Diameter	0.8/1.0/1.2/1.6mm	
	Output Laser Wavelength	1080 ±5nm		Chiller Brand	S&A	
	Operation Mode	Continuous / Pulse / Spot		Cooling	Cooling Method	Dual-temp dual-control water cooling
	Safety Certification	CE			Assist Gas	Argon / Nitrogen
	Laser Safety Class	Class 4			Gas Input Pressure	≤1.5MPa

HW2000

Application

General Industry : Sheet metal cabinets / kitchen & bath / construction / hardware tools

Precision Technology : Electronics / medical / molds / new energy

Heavy Transport : Automotive / aerospace / rail equipment

Features

Core Brand : Raycus laser + RelFar torch + S&A-temp chiller for high output, long-term stability, and industrial reliability.

4-in-1 Function : Welding / Cutting / Cleaning / Rust Removal—fast switching for flexible, efficient production.

High-Precision Welding : Small heat-affected zone, smooth welds, reducing grinding and post-processing.

Multi-Material : Stainless steel, carbon steel, aluminum; stable welding from thin to medium-thick plates.

Smart Wire Feeding : Single or dual wire ensures uniform, strong welds.

Energy-Saving & Safe : Low power consumption, touch operation, multiple protections for reliable performance.



Specification

System & Power	Rated Input Voltage	220V 1Φ, 50/60Hz	Welding Performance	Torch Brand	RelFar	
	Rated Input Power	16kW		Wobble Scan Type	Dual Oscillating Welding Head	
	Max Power Consumption	< 8.5kW		Wobble Type	— ○ ∞ ∂ ⊙ △	
	Control System	RelFar System		Energy Storage Welding Mode	-	
	Functional Mode	Welding / Cutting / Cleaning / Rust Removal		Wobble Length / Width	0~5mm	
	Control Interface	7-inch Touch Screen		Cable Length	10M	
Laser Performance	Laser Source Brand	Raycus	Wire Feeding	Torch Weight	≤ 1.0kg	
	Fiber Connector	QBH		Wire Feeder	Single / Dual (optional)	
	Rated Laser Output Power	2000W ±50		Wire Diameter	0.8/1.0/1.2/1.6mm	
	Output Laser Wavelength	1080 ±5nm		Chiller Brand	S&A	
	Operation Mode	Continuous / Pulse / Spot		Cooling	Cooling Method	Dual-temp dual-control water cooling
	Safety Certification	CE			Assist Gas	Argon / Nitrogen
	Laser Safety Class	Class 4			Gas Input Pressure	≤1.0MPa



HW2000-5

Application

General Industry : Sheet metal cabinets / kitchen & bath / construction / hardware tools

Precision Technology : Electronics / medical / molds / new energy

Heavy Transport : Automotive / aerospace / rail equipment

Features

Core Brand : Raycus laser + RelFar torch + S&A-temp chiller for high output, long-term stability, and industrial reliability.

5-in-1 Function : Welding / Cutting / Cleaning / Rust Removal / Energy Storage Welding—fast switching for flexible, efficient production.

High-Precision Welding : Small heat-affected zone, smooth welds, reducing grinding and post-processing.

Multi-Material : Stainless steel, carbon steel, aluminum; stable welding from thin to medium-thick plates.

Smart Wire Feeding : Single or dual wire ensures uniform, strong welds.

Energy-Saving & Safe : Low power consumption, touch operation, multiple protections for reliable performance.

“ 2000W
CE Certified 5-in-1 ”



Specification

System & Power	Rated Input Voltage	220V 1Φ, 50/60Hz	Welding Performance	Torch Brand	RelFar
	Rated Input Power	16kW		Wobble Scan Type	Dual Oscillating Welding Head
	Max Power Consumption	< 6.0kW		Wobble Type	— ○ ∞ ∂ ⊙ △
	Control System	RelFar System		Energy Storage Welding Mode	√
	Functional Mode	Welding / Cutting / Cleaning / Rust Removal / Energy Storage Welding		Wobble Length / Width	0~5mm
	Control Interface	7-inch Touch Screen		Cable Length	10M
Laser Performance	Laser Source Brand	Raycus	Wire Feeding	Torch Weight	≤ 1.0kg
	Fiber Connector	QBH		Wire Feeder	Single / Dual (optional)
	Rated Laser Output Power	2000W ±50		Wire Diameter	0.8/1.0/1.2/1.6mm
	Output Laser Wavelength	1080 ±5nm		Chiller Brand	S&A
	Operation Mode	Continuous / Pulse / Spot		Cooling Method	Dual-temp dual-control water cooling
	Safety Certification	CE		Assist Gas	Argon / Nitrogen
	Laser Safety Class	Class 4	Cooling	Gas Input Pressure	≤ 1.0MPa

HC-5

Brushless DC Motor with PWM and Encoder for Precise Control
Low-voltage DC Power Supply – No Risk of Electric Leakage or Safety Hazards
Durable Lithium Battery – Cordless and Portable for Use Anywhere

Application

Shipbuilding industry · Bridge-building industry

Petroleum industry · Structural steel fabrication

Automotive / Transportation equipment

Features

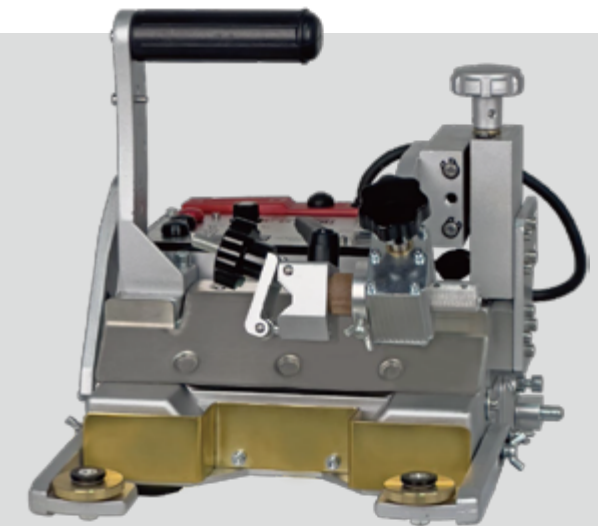
High-performance magnetic increases the reliability of profiling welding and also ensure a smooth operation.

It has limit stop function and one worker can operate multiple units at the same time.

It is satisfied special process work-pieces, the welding distance and non-welding distance can be adjusted.

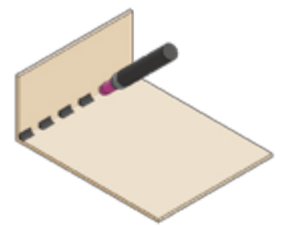
This carriage has a magnetic adsorption clutch handle and it is easy to adjust and install.

Fitted with rail, it can complete the flat butt weaving welding.



Specification

Input Voltage	24V / 3AH Lithium Battery
Drive Mode	Four Wheel Drive
Traction Power	25kg
Travel Speed	35~930(mm/min)
Travel Distance	Welding Distance 0~999mm · Non Welding Distance 0~999mm
Arc Suppression Time	0~2.5s
Track Method	Guide Wheel
Guide Wheel Height	3 Options (10 · 20 · 38mm)
Torch	Bend Torch / Straight Torch
Torch Position Adjustment	Horizontal Angle 40°~55° · Up / Down & Left / Right Movement 40mm
Unweldable Distance	Front 137mm · Rear 137mm
Automatic Stop Function	Front and rear limit devices
Dimensions (W*D*H)	260*280*265mm
Weight	8.6kg



▲ Intermittent welding



HC5-1K

Brushless DC Motor with PWM and Encoder for Precise Control
Low-voltage DC Power Supply – No Risk of Electric Leakage or Safety Hazards
Durable Lithium Battery – Cordless and Portable for Use Anywhere

Application

Shipbuilding industry \ Bridge-building industry
Petroleum industry \ Structural steel fabrication
Automotive / Transportation equipment

Features

The whole body is made of aluminum alloy, which is solid and durable, lightweight, and easy to carry.

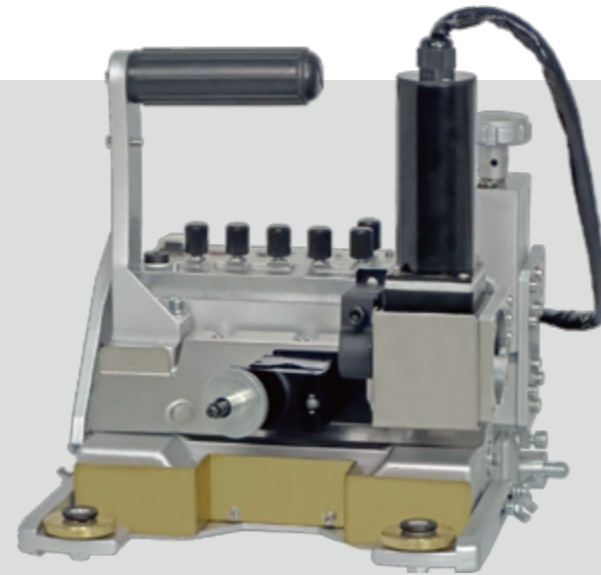
This carriage has a magnetic adsorption clutch handle and it is easy to adjust and install.

This carriage is equipped with an oscillator part and the oscillator is driven by a brush-less motor with high precision and long using life.

With welding torch arc suppression function, arc suppression time adjustment range is 0~2.5 seconds.

By means of magnet adsorption and the guide wheel profiling walking, it meets ordinary [Flat Fillet Welding](#) and [Thick Plate Groove Multi-pass Welding](#).

Fitted with rail and hook wheels, it can complete the [Flat Butt Weaving Welding](#).

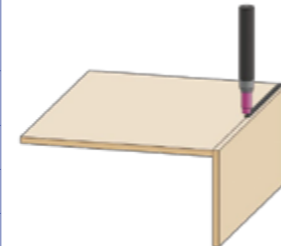


Specification

Input Voltage	24V / 4AH Lithium Battery
Weaving Motor Voltage	DC 24V
Drive Mode	Four Wheel Drive
Traction Power	25kg
Travel Speed	35~930(mm/min)
Weaving Parameters	Weaving Speed 0~40 cpm Weaving Angle $\pm 8^\circ$ Left / Right Dwell Time 0~2.5s
Weaving Mode	
Track Method	Guide Wheel
Guide Wheel Height	3 Options (10 \ 20 \ 38mm)
Torch	Bend Torch / Straight Torch
Torch Position Adjustment	Horizontal Angle $40^\circ \sim 55^\circ$ \ Up/Down & Left/Right Movement 40mm
Unweldable Distance	Front 137mm \ Rear 137mm
Automatic Stop Function	Front and rear limit devices
Dimension (W*D*H)	280*285*290mm
Weight	12kg(Include Oscillator)



▲ Flat Corner Welding



▲ Corner Plate Joint Welding

HC5-6

Brushless DC Motor with PWM and Encoder for Precise Control
Low-voltage DC Power Supply – No Risk of Electric Leakage or Safety Hazards
Durable Lithium Battery – Cordless and Portable for Use Anywhere

Application

Shipbuilding industry \ Bridge-building industry
Petroleum industry \ Structural steel fabrication
Automotive / Transportation equipment

Features

It is widely used in [Flat Fillet Welding](#), [Vertical Fillet Welding](#), [Flat Butt Joint](#), [Horizontal Butt Joint](#), [Vertical Butt Joint](#) and [Overhead Welding](#).

With the travel angle adjustment function, this carriage is able to meet [The Requirements of Build Up Welding](#) or [Drawing Welding](#).

There is no clearance in the transmission of the oscillator, it ensures the accuracy of the torch weaving.

This carriage has a magnetic adsorption clutch handle and it is easy to adjust and install.

High-performance magnetic increases the reliability of profiling welding and also ensure a smooth operation.

Fitted with soft rail or hard rail it can complete [the vertical walking](#), [side suction horizontal walking](#), [curved walking](#) and [Flat Butt Welding](#).



Specification

Input Voltage	24V / 4AH Lithium Battery
Drive Mode	Four Wheel Drive
Traction Power	32kg
Travel Speed	35~930(mm/min)
Tracking Method	Guide Wheel / Guide Rail
Torch	Bend Torch or Straight Torch
Torch Position Adjustment	Rotate around the X axis $\pm 45^\circ$ Rotate around the Y axis $\pm 30^\circ$ Lateral movement 20mm Vertical movement 20mm
Weaving Parameters	Weaving Angle $0 \sim \pm 8^\circ$ Max Weaving Speed 0~40 cpm Left / Right Resistance Time 0~2.5s
Unweldable Distance	Front 150mm \ Rear 146mm
Dimension (W*D*H)	195*314*242mm
Weight	12kg



▲ 3-Meter Diameter Arc / Flat Panel Horizontal Alignment Welding



▲ Angle Welding



▲ Flat Butt Welding



▲ Side Suction Welding

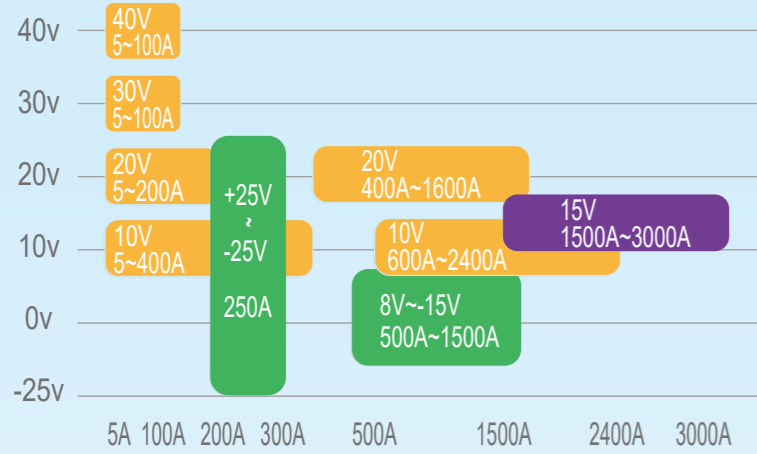


▲ Corner Welding



▲ Vertical Butt Welding





- ABD Pulse Rectifier
- ABP Forward Pulse Rectifier
- ABU Pulse-Reverse Rectifier
- FBD High Current

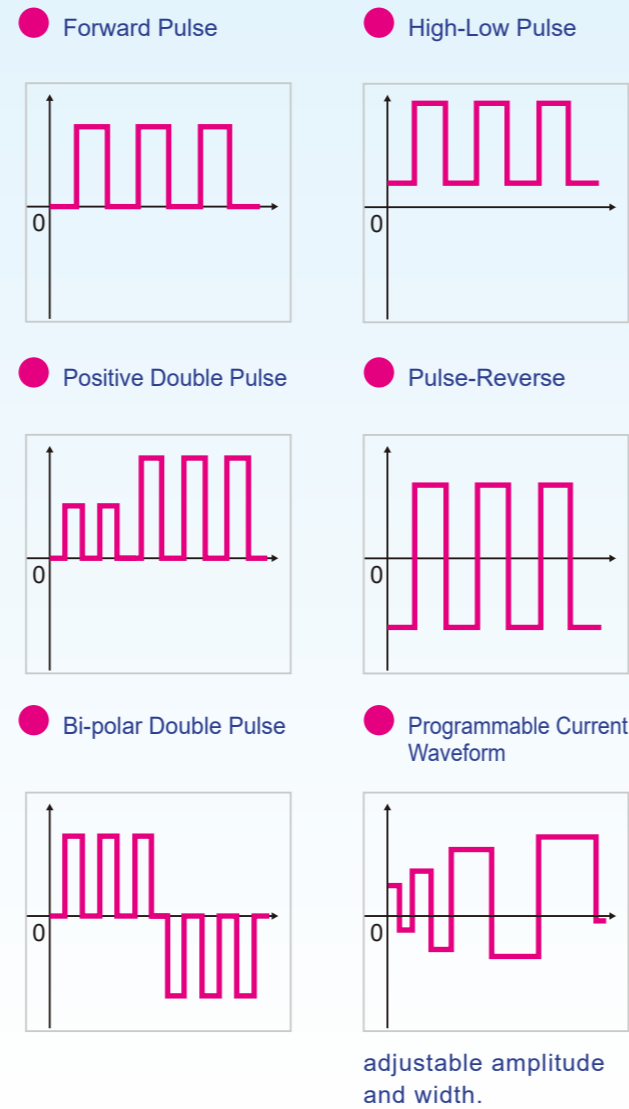
● supports high-current processes

The modular ABD and ABP series support multi-unit parallel operation with HMI/PLC integration, delivering up to 2400A for high-current applications.

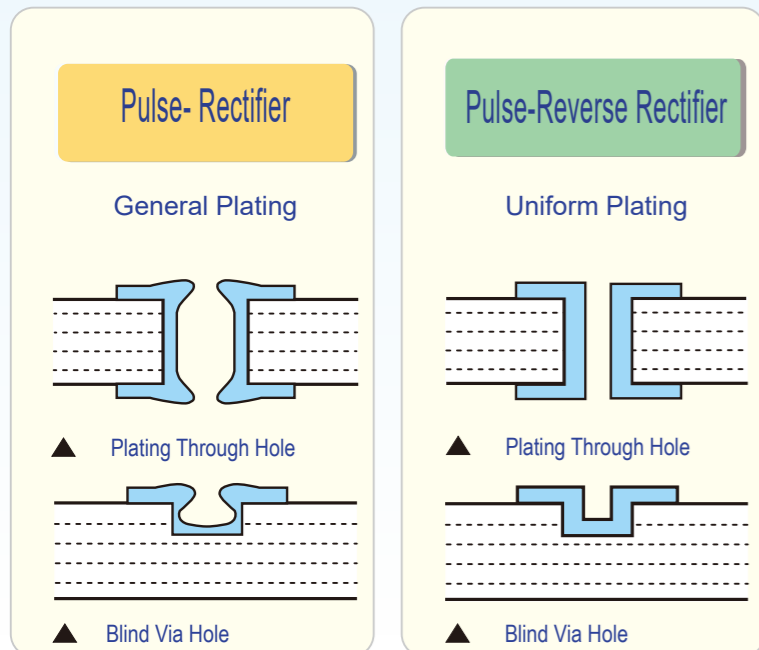


Model	Voltage	Current	Cooling	
ABD ABP	Single Unit	10V	5~400A	Air cooling
		20V	5~200A	
		30V	5~100A	
		40V	5~100A	
	Parallel Units	10V	600~2400A	
	20V	400~1600A		
ABU	+25~-25V	250A	Air cooling	
	+8~-15V	500~1500A	Water cooling	
FBD	15V	1500~3000A	Water cooling	

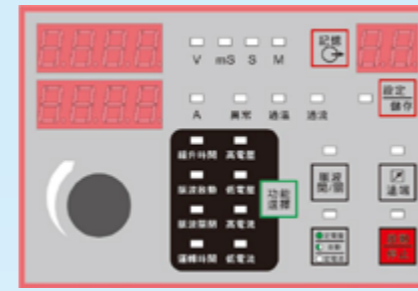
Pulse Waveform diagram



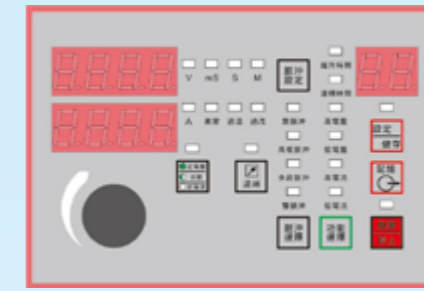
Pulse and Pulse-Reverse Plating



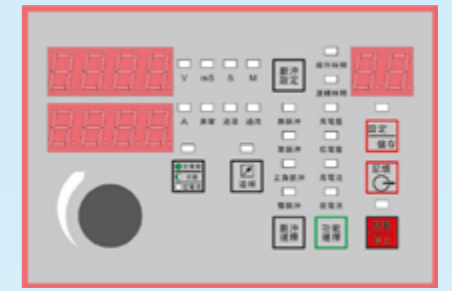
ABD Series



ABP Series



ABU Series



Series	ABD Series	ABP Series	ABU Series
Rated input voltage	220V ,1/3Φ 380V/440V ,3Φ	220V ,1/3Φ 380V/440V ,3Φ	220V ,1/3Φ 380V/440V ,3Φ
Input voltage range	±15%	±15%	±15%
Input frequency	47~63Hz	47~63Hz	47~63Hz
Output voltage range	10V ,20V ,30V ,40V	10V ,20V ,30V ,40V	0~25Vdc
Output current range	5~400A	5~400A	0~250Adc
Positive and Negative Current / Time	-	-	+ :250A/1~200ms - :250A/1~200ms
Output voltage noise and ripple	< 0.1%	< 0.1%	-
Output current ripple	< 1%	< 1%	-
Line & Load regulation rate	1% of maximum output voltage/current		
Meter accuracy	±(1%+1 digit) of maximum output voltage / current		
Analog program setting accuracy	% of maximum output voltage/current		
Forward pulse	√	√	√
High - Low pulse	-	√	√
Positive Double Pulse	-	√	√
Pulse-Reverse	-	-	√
Bi-polar Double Pulse	-	-	√
Programmable Current Waveform	-	√	√
Link System	Analog / Modbus RTU (standard)	Analog / Modbus RTU (standard / Customizable)	Analog / Modbus RTU (standard / Customizable)

Standard chassis sizes available, also customizable upon request

Sizes :

- 1 3U Cabinet : 620 × 450 × 135 mm
- 2 3U+High : 555 × 405 × 225 mm
- 3 Upright : 200 × 500 × 530 mm



倍利源

Braver Power

Features

- Small size and lightweight
- High precision
- Soft-start design
- Quick response
- High energy efficiency
- Forced air cooling
- Low ripple current
- Intelligent control
- Can be connected to RS485/PLC

Functions

- Abnormal light display
- Over temperature & current display
- High/low voltage and current display
- 99 groups of programs for job selection
- C.C & C.V design
- AUTO mode

Applications

- Applications
- Precious metals materials electroplating
- Terminal continuous electroplating
- Passive element electroplating
- Printed circuit board
- Metals Coating
- Laboratory power supply

Custom designs available



Digital Pulse ABD

Standrad	10V	5A~400A
	20V	5A~200A
	30V	5A~100A
	40V	5A~100A
Customization	10V	300A~2400A
	20V	200A~1600A

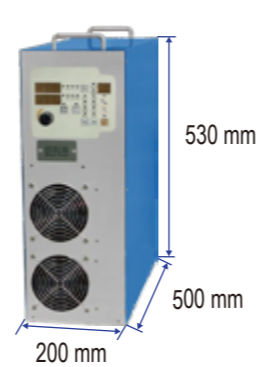
Rated input voltage	220V , 1/3Φ 380V/440V,3Φ
Input frequency	47~63HZ
Output voltage noise and ripple	<0.1%
Output current ripple	<1%
Line regulation rate	0.1% of maximum output voltage/current
Load regulation rate	0.1% of maximum output voltage/current
Meter accuracy	±(1% +1 digit) of maximum output voltage / current
Analog program setting accuracy	0.1% of maximum output voltage/current

Standard chassis sizes available, also customizable upon request.

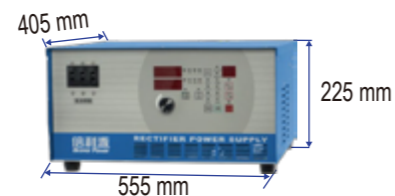
1 3U Cabinet



3 Upright



2 3U+High



倍利源

Braver Power

Features

- Small size and lightweight
- Soft-start design
- High precision
- Intelligent control
- Quick response
- High energy efficiency
- Forced air cooling
- Low ripple current
- 2 sets of AB surface current can be set in conjunction
- Can be connected to RS422/RS485/PLC

Functions

- Abnormal light display
- Over temperature & current display
- High/low voltage and current display
- Multi-pulse mode function
- Ampere-hour calculation (automatic addition of potions)
- 99 groups of programs for job selection
- C.C & C.V design
- Independent current signal output

Applications

- Applications
- Precious metals materials electroplating
- Terminal continuous electroplating
- Passive element electroplating
- Printed circuit board
- Metals Coating
- Laboratory power supply

Custom designs available



Digital Forward Pulse ABP

Standrad	10V	5A~400A
	20V	5A~200A
	30V	5A~100A
	40V	5A~100A
Customization	10V	300A~2400A
	20V	200A~1600A

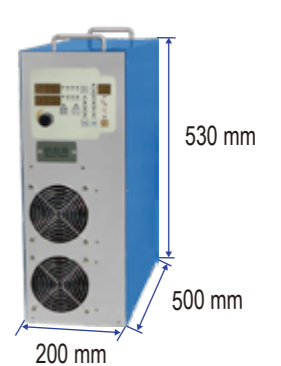
Rated input voltage	220V , 1/3Φ 380V/440V,3Φ
Input frequency	47~63HZ
Output voltage noise and ripple	<0.1%
Output current ripple	<1%
Line regulation rate	0.1% of maximum output voltage/current
Load regulation rate	0.1% of maximum output voltage/current
Meter accuracy	±(1% +1 digit) of maximum output voltage / current
Analog program setting accuracy	0.1% of maximum output voltage/current

Standard chassis sizes available, also customizable upon request.

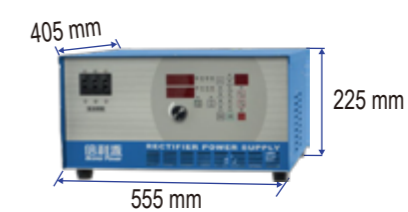
1 3U Cabinet



3 Upright



2 3U+High



倍利源

Braver Power

Features

- Small size and lightweight
- Intelligent automation control
- Soft-start design
- Programmable operation with 10-stage
- Change of output current and it is adjustable
- Inverter technology for energy-efficient
- Low ripple current
- Quick response
- High precision
- Can be connected to Analog / RS422 / RS485 / PLC
- Suitable for multi-machine synchronous operation

Functions

- Abnormal light display
- Over temperature & current display
- High/low voltage and current display
- 99 groups of programs for job selection
- C.C & C.V design
- AUTO mode

Applications

- Precious metals materials electroplating
- Precision electroplating
- Terminal continuous electroplating
- Passive element electroplating
- Printed circuit board
- Metals Coating
- Laboratory power supply

Custom designs available



Digital Pulse-Reverse ABU

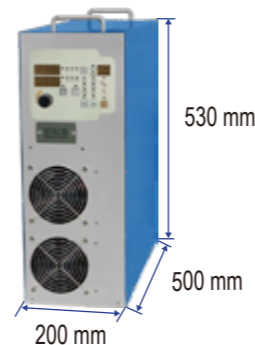
Rated input voltage	220V,1/3Φ; 380/440V,3Φ ±15%
Phase	3Φ
Frequency	47~63 HZ
Rated input power	8.75 KVA
Average rated input current	28 Aac (+15%,-10%)
Output voltage range	0~25 Vdc
Output current range	0~250 Adc
Positive current /time	250A / 1~200ms
Negative current /time	250A / 1~200ms
C.C control accuracy	±3.0%
Pulse mode switching	Forward pulse / High - Low pulse / Positive Double Pulse / Pulse-Reverse Bi-polar Double Pulse

Standard chassis sizes available, also customizable upon request.

1 3U Cabinet



3 Upright



2 3U+High



Bailiyuan Rectifiers · Seamlessly Connect to Your Production Line

Cross-Brand Compatible · Save Time, Effort, and Cost



Application

- Precious metals materials electroplating
- Precision electroplating
- Terminal continuous electroplating
- Passive element electroplating
- Printed circuit board
- Laboratory power supply

Features

- Small size and light weight
- Soft-Start Design
- High efficiency power supply
- Low ripple current
- High precision and Quick response
- Can be connected to RS-422/RS-485/PLC

Functions

- Pulse wave mode function
- C.C & C.V design
- 99 group memory mode
- Ampere-hour calculation
- Voltage & Current Abnormal Warning/Protection
- Overtemperature and overcurrent display

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