

HERO POWER Group

ARCO

HERO 好漢
POWER

倍利源
Braver Power

Welding Equipment / Rectifier Power / Other Power Supply



Since 1986 Innovation Customized Design Global Marketing

Precise • Reliable • Energy Saving

150~1300A TIG/MIG Welding Equipment

800~1300A Submerged Arc Welding

30~500A Plasma Machine Series

Exhaust gas treatment power supply

Pulse Rectifier

Forward Pulse Rectifier

Pulse-Reverse Rectifier

High Voltage Power Supply

ODM / OEM Power Supply



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About HEROPOWER

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.



TIG

●HERO POWER New Model

Model Current	100A ↓	200A	300A	400A	500A ↑
DC TIG		DT-200 F-20P BET-201	- DT-300 - DT-301 BET-300 BFT-301	- DT-400 - DT-400E - DT-401 FT-402	DT-500 FT-500
			360A ●DT-360E		1300A DC-1300
AC/DC TIG			AT-301 AFT-301 AFT-303	AT-400 AFT-400	AT-500 AFT-500
PLASMA Welder	30A ●PT-30 50A PAW-50	PAW-200			PT-500 PAW-500 PAW-501

Cold Welder / Digital Automation Controller

Model Current	TIG + Digital Automation Controller	300A	400A
Cold Welder	- The automatic controller can be remotely controlled with 99% of the welding machines on the market, and the RS-485 MODBUS communication control and analog 0~10V control are available. - Integrated time switch control allows the welding machine to achieve cold welding effect, can choose a single spot welding or continuous spot welding, through the action of the controller to ensure that each point is the same, stable and consistent.	DT-300C	DT-401C
		With digital automation controller functionality	

MIG

Model Current	200A	400A	500A	650A ~ 1300A
MIG	BCM-200 250A BCM-250EF	350A BEM-350	BEM-500	650A BEM-650
Digital MIG		- DM-400R - DM-400RS - DM-400RP	- DM-500RP 550A ●DM-550R ●DM-550RS	
SUB ARC				800A ●DM-800 1000A ●DM-1000 1250A ●DM-1250 1300A ●DM-1300

PLASMA CUTTER

PLASMA CUTTER	50A	60A	90A	100A	160A
	●DP-50 BEP-50 SP-53	●DP-60 BEP-60	●DP-90 BEP-92 AP-90	BEP-120	BEP-160

MMA

●ARCO New Model
●HERO POWER New Model

Brand	ARCO		HERO POWER	
Model Current	190A	220A	300A	400A
MMA	●ARCO210	●ARCO300	●BES-300II BES-300	●DS-400 BES-400



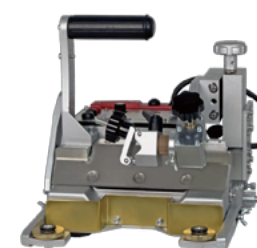
Welding Carriage

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



Soft Track Hard Track

By adding optional track and guide wheel components, the range of applications for the cart can be expanded.



HC-5



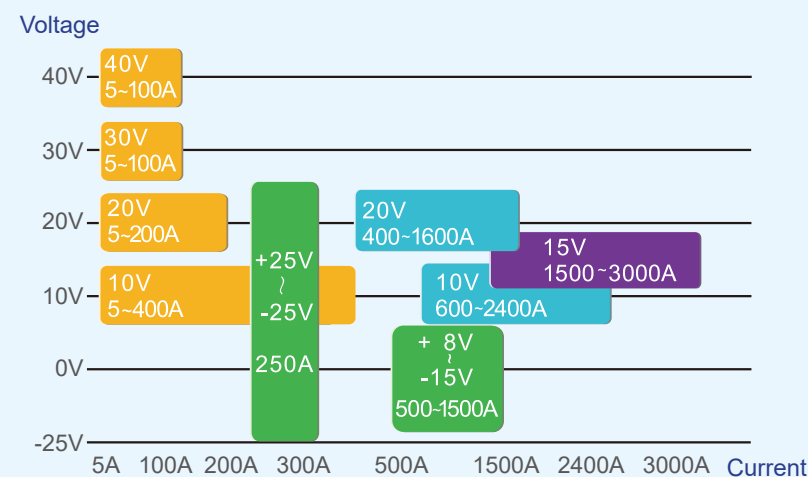
HC5-1K



HC5-6

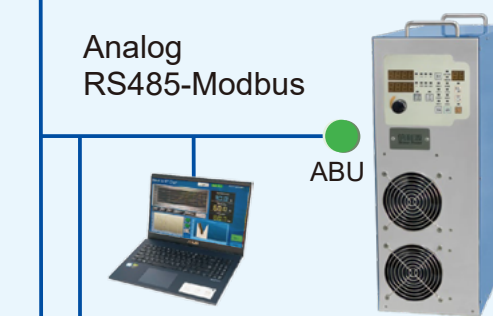
倍利源

Braver Power Rectifier



ABD Digital Pulse ABD
ABP Digital Forward Pulse ABP
ABU Digital Pulse-Reverse ABU
ABDD ABD+HMI & PLC parallel Connection
ABDX High Current

The specifications, functions, and external dimensions of the rectifier can all be customized upon request.



ABD

ABP

Analog
RS485-Modbus

ABU

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			Low: 1
	KW	5			-
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



BET-201

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			Low: 1
	KW	4.9			-
Rated output	V	TIG: 18	Pulse Ratio Width	%	50
		STICK: 25.6	Duty cycle	-	200A / 20%
	A	TIG: 200			90A / 100%
		STICK: 140	Water cooler control	-	-
Welding amperage range	A	TIG: 5~200	Clean	A	5~10
		STICK: 5~140	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	175*388*240
Spot time	Sec	-	Net Weight	kg	12.5



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 ,1/3Φ	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-300

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	11.46			-
	KW	8.23			-
Rated output	V	TIG: 22	Pulse Ratio Width	%	-
		STICK: 30	Duty cycle	-	300A / 40%
	A	TIG: 300			190A / 100%
		STICK: 250	Water cooler control	-	✓
Welding amperage range	A	TIG: 10~300	Clean	-	-
		STICK: 10~250	Gas check	-	✓
Efficiency	%	80	Crater control	-	Crater / Repeat
Open-circuit voltage	V	70	Insulation class	-	H
Up slope	Sec	0.1	Protection class	-	IP21S
Down slope	Sec	0.1	Dimension (W*D*H)	mm	260*577*503
Spot time	Sec	-	Net Weight	kg	25



DT-301

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	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	High: 7.5~500
Rated input capacity	KVA	11.46			Middle: 13~47
	KW	8.23			Low: 0.4~27
Rated output	V	TIG: 22	Pulse Ratio Width	%	1~99
		STICK: 30	Duty cycle	-	300A / 40%
	A	TIG: 300			190A / 100%
		STICK: 250	Water cooler control	-	✓
Welding amperage range	A	TIG: 10~300	Clean	-	-
		STICK: 10~250	Gas check	-	✓
Efficiency	%	80	Crater control	-	Crater / Repeat/Special 2T
Open-circuit voltage	V	70	Insulation class	-	H
Up slope	Sec	0.1~10	Protection class	-	IP21S
Down slope	Sec	0.1~10	Dimension (W*D*H)	mm	260*577*503
Spot time	Sec	0.2~10	Net Weight	kg	25



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	10.7			-
Rated output	V	TIG: 24.4	Pulse Ratio Width	%	-
		STICK: 30	Duty cycle	-	360A / 60%
	A	TIG: 360			279A / 100%
		STICK: 250	Water cooler control	-	✓
Welding amperage range	A	TIG: 5~360	Clean	-	-
		STICK: 5~250	Gas check	-	✓
Efficiency	%	82	Crater control	-	Crater/off /Repeat
Open-circuit voltage	V	65	Insulation class	-	H
Up slope	Sec	-	Protection class	-	IP21S
Down slope	Sec	-	Dimension (W*D*H)	mm	306*607*495
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	2~15
Input voltage range	%	±15%	Pulse current	A	5~400
Input frequency	HZ	50 & 60	Pulse frequency	HZ	High: 7.5~500
Rated input capacity	KVA	13.3			Middle: 13~47
	KW	12.3			Low: 0.4~27
Rated output	V	TIG: 26	Pulse Ratio Width	%	1~99
		STICK: 30	Duty cycle	-	400A / 40%
	A	TIG: 400			255A / 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 / Special 2T
Open-circuit voltage	V	70	Insulation class	-	H
Up slope	Sec	0.2~10	Protection class	-	IP21S
Down slope	Sec	0.2~10	Dimension (W*D*H)	mm	300*730*570
Spot time	Sec	0.2~10	Net Weight	kg	43



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	Duty cycle	-	400A / 40%
	A	TIG: 400			253A / 100%
		STICK: 250	Water cooler control	-	✓
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	2~15
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	23.9			Middle: 1.2~45
	KW	19.15			Low: 0.3~13
Rated output	V	TIG: 30	Pulse Ratio Width	%	1~99
		STICK: 40	Duty cycle	-	500A / 60%
	A	TIG: 500			387A / 100%
		STICK: 400	Water cooler control	-	✓
Welding amperage range	A	TIG: 10~500	Clean	-	-
		STICK: 10~400	Gas check	-	✓
Efficiency	%	65	Crater control	-	Crater / Repeat / Special 2T
Open-circuit voltage	V	75	Insulation class	-	H
Up slope	Sec	0.2~10	Protection class	-	IP21S
Down slope	Sec	0.2~10	Dimension (W*D*H)	mm	300*730*570
Spot time	Sec	0.2~10	Net Weight	kg	56



BFT-301

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
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	220 V ,1/3Φ	Pre flow time	Sec	0.2~5
		-	Post flow time	Sec	2~15
Input voltage range	%	±15%	Pulse current	A	5~300
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	Pulse Ratio Width	%	6~75
		STICK: 30	Duty cycle	-	300A / 60%
	A	TIG: 300			190A / 100%
		STICK: 250	Water cooler control	-	✓
Welding amperage range	A	TIG: 5~300	Clean	-	-
		STICK: 5~250	Gas check	-	✓
Efficiency	%	80	Crater control	-	Crater / Repeat
Open-circuit voltage	V	62	Insulation class	-	H
Up slope	Sec	0.1~7	Protection class	-	IP21S
Down slope	Sec	0.1~7	Dimension (W*D*H)	mm	235*545*375
Spot time	Sec	0.1~5	Net Weight	kg	27



BET-300

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
Pulse Function included
4-segment arc control(S-hard/hard/soft/S-soft)
Provide lift arc start
Multifunction include TIG pulse,crater,repeat ,MMA(STICK) etc.



Specification

Input Power	V	220 V ,1Φ	Pre flow time	Sec	0.1
		-	Post flow time	Sec	2~10
Input voltage range	%	±18%	Pulse current	A	-
Input frequency	HZ	50 & 60	Pulse frequency	HZ	High: 10
					-
Rated input capacity	KVA	9.73			Low: 1
	KW	8.68			
Rated output	V	TIG: 22	Pulse Ratio Width	%	50
		STICK: 28	Duty cycle	-	300A / 30%
	A	TIG: 300			165A / 100%
		STICK: 190	Water cooler control	-	✓
Welding amperage range	A	TIG: 10~300	Clean	-	-
		STICK: 10~190	Gas check	-	-
Efficiency	%	76	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	232*500*368
Spot time	Sec	-	Net Weight	kg	24



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	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: 14~500
					-
Rated input capacity	KVA	13.3			Low: 0.4~14
	KW	12.3			
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



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	220 V ,1/3Φ	Pre flow time	Sec	0.2~5
		380/415 V ,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

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-400

Application

Industrial equipment manufacturing
Aluminum processing 、Sheet metal fabrication
Pipe & tube fabrication 、Shipbuilding industryt

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	2~15
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	80DC / 100AC	Insulation class	-	H
Up slope	Sec	0.2~10	Protection class	-	IP21S
Down slope	Sec	0.2~10	Dimension (W*D*H)	mm	300*730*570
Spot time	Sec	0.2~10	Net Weight	kg	56



AT-500

Application

Industrial equipment manufacturing
Aluminum processing 、Sheet metal fabrication
Pipe & tube fabrication 、Shipbuilding industryt

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	2~15
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			387A / 100%
		STICK: 400	Water cooler control	-	✓
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	V	80DC / 100AC	Insulation class	-	H
Up slope	Sec	0.2~10	Protection class	-	IP21S
Down slope	Sec	0.2~10	Dimension (W*D*H)	mm	300*735*670
Spot time	Sec	0.2~10	Net Weight	kg	74



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			190A / 100%
		STICK: 250	Water cooler control	-	✓
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



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			-
	KW	8.7			Low: 0.4~27
Rated output	V	TIG: 22	Pulse Ratio Width	%	20~80
		STICK: 30	Duty cycle	-	300A / 70%
	A	TIG: 300			250A / 100%
		STICK: 250	Water cooler control	-	✓
Welding amperage range	A	TIG: 10~300	AC Balance	%	20~50
		STICK: 10~250	Gas check	-	✓
Efficiency	%	76	Crater control	-	Crater / Repeat
Open-circuit voltage	V	75DC / 135AC	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	65



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			-
	KW	13.3			Low: 0.4~27
Rated output	V	TIG: 26	Pulse Ratio Width	%	20~80
		STICK: 30	Duty cycle	-	400A / 80%
	A	TIG: 400			350A / 100%
		STICK: 250	Water cooler control	-	✓
Welding amperage range	A	TIG: 10~400	AC Balance	%	10~50
		STICK: 10~250	Gas check	-	✓
Efficiency	%	78	Crater control	-	Crater / Repeat
Open-circuit voltage	V	75DC / 145AC	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



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	Pre flow time	Sec	0.2~5
		380/415 V ,3Φ	Post flow time	Sec	2~15
Input voltage range	%	±15%	Pulse current	A	10~500
Input frequency	HZ	50&60	Pulse frequency	HZ	High: 7.5~500
Rated input capacity	KVA	22.91			-
	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%
		STICK: 400	Water cooler control	-	✓
Welding amperage range	A	TIG: 10~500	AC Balance	%	20~50
		STICK: 10~400	Gas check	-	✓
Efficiency	%	70	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



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 ,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	10~500
Input frequency	HZ	50&60	Pulse frequency	HZ	High: 1.3~500
Rated input capacity	KVA	29.47			Middle: 1.2~47
	KW	23.28			Low: 0.7~27
Rated output	V	DC ARC: 21.2	Pulse Ratio Width	%	1~99
		DC TIG: 40	Duty cycle	-	500A / 70%
	A	DC ARC: 30			420A / 100%
		DC TIG: 500	Water cooler control	-	✓
Welding amperage range	A	DC ARC: 0~30	Clean	-	-
		DC TIG: 10~500	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	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 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 Φ	Shield Gas Pre flow time	Sec	0.1~2.5
		-	Shield Gas Post flow time	Sec	2~25
Input voltage range	%	$\pm 15\%$	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 1~50	Duty cycle	-	50A / 100%
		Arc 1~25			-
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



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 ,1/3 Φ	Shield Gas Pre flow time	Sec	0.1~2.5
		-	Shield Gas Post flow time	Sec	2~25
Input voltage range	%	$\pm 15\%$	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



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



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



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



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

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	Φ0.9,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



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- 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.



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-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



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



DM-500RP

Application

General fabrication 、 structural steel fabrication
Hard facing workshop 、 LPG & LNG Storage tank
Sheet metal fabrication 、 Truck/trailer manufacturing

Features

Inverter technology for energy-efficient
Wire feeder include digital display for easy operation
Multifunction include DC/Pulse/Double pulse
10 groups of programs can be memorized for job selection
Precise digital control of each melt can reduce spatters
Special feedback control allows longer torch lead
Perfect short arc force for narrow gap and root welding
Force arc good for thick material penetration



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

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

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- 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



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- 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



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



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



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
Bridge Construction Industry
Pipeline Manufacturing Industry
Industrial Equipment Manufacturing

Brand-new model
officially launching in August 2025.

Features

Supports automatic switching between 110V / 220V, no manual adjustment required.

Built-in electric shock protection to effectively enhance operational safety.

Equipped with current pre-display function for accurate monitoring of output current and more precise adjustments.

Capable of long-duration continuous welding with 3.2mm electrodes without interruption, significantly improving efficiency.

Features adjustable arc start current and arc force current, making arc ignition easier and welding more stable.



Specification

Input Power	V	110V,1Φ	Efficiency	%	85
		220V,1Φ	Open-circuit voltage	V	60
Input voltage range	%	±15%	Duty cycle	-	190A / 25%
Input frequency	HZ	50&60			95A / 100%
Rated input capacity	KVA	7.7	Welding Electrode	mm	2.6~4.0
	KW	6.2	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	150*300*390
Welding amperage range	A	40~110 (110V) 20~190 (220V)	Net Weight	kg	12



ARCO 300

Application

Carbon Steel Product Manufacturing
Bridge Construction Industry
Pipeline Manufacturing Industry
Industrial Equipment Manufacturing

Brand-new model
officially launching in August 2025.

Features

Supports automatic switching between 220V / 380V, eliminating the need for manual settings and making operation more convenient.

Built-in VRD (Voltage Reduction Device) safety switch, effectively lowers standby voltage to ensure operator safety.

Equipped with voltage and current pre-display functions, allowing for more precise monitoring of welding conditions.

Capable of long-duration continuous welding with 4.0mm electrodes, ideal for heavy-duty applications.

Adjustable arc start current and arc force current, enabling easy arc ignition and stable welding performance.



Specification

Input Power	V	220/380V,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	9.1			110A / 100%
	KW	7.4	Welding Electrode	mm	2.6~4.0
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	177*376*345
Arc Force Output Current Range	A	0~100	Net Weight	kg	16



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



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			
Rated output	V	TIG: 22	Pulse Ratio Width	%	5~95
			Duty cycle	-	300A / 40%
	A	TIG: 300			
				Water cooler control	-
Welding amperage range	A	TIG: 10~300	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			
Rated output	V	TIG: 26	Pulse Ratio Width	%	5~95
			Duty cycle	-	400A / 70%
	A	TIG: 400			
				Water cooler control	-
Welding amperage range	A	TIG: 10~400	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



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



●PC BASE
RS485-Modbus Communications
Windows operating software



●ALL Brand
welding machine
cold welding
continuous spot welding

●HERO
AT / DT Series
cold welding
continuous spot welding
analog controlled pulse parameters

HC-5

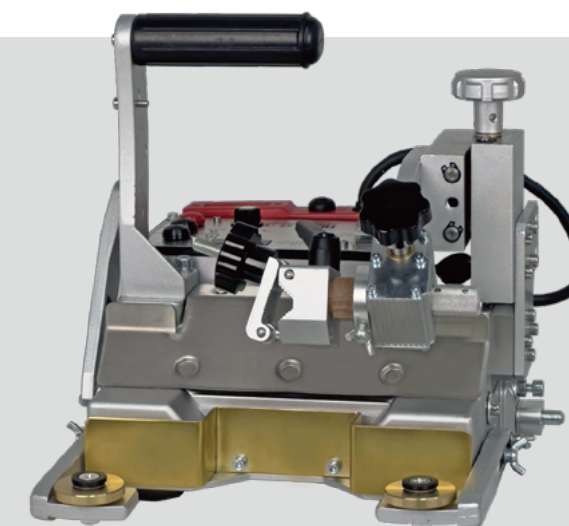
Brushless DC Motor with PWM and Encoder for Precise Control
Low-voltage DC Power Supply – No Risk of Electric Leakage or Safety Hazards
Durable Lithium Battery – Cordless and Portable for Use Anywhere

Application

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

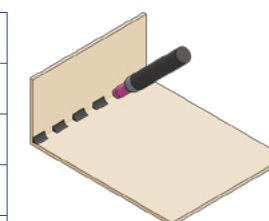
Features

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.

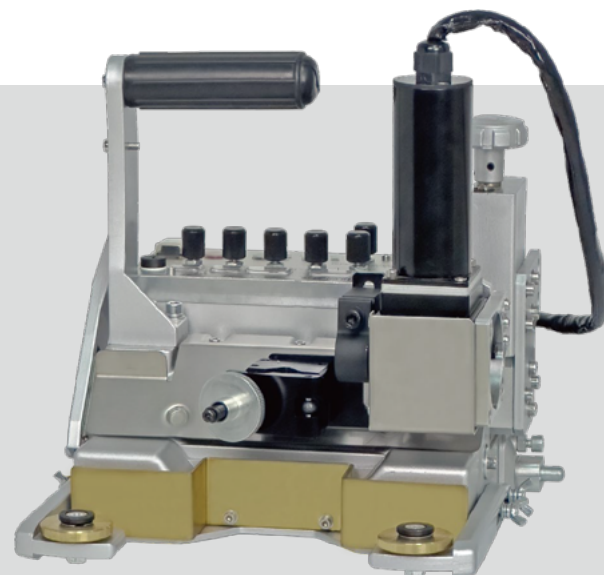
This carriage has a magnetic adsorption clutch handle and it is easy to adjust and install.

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](#).

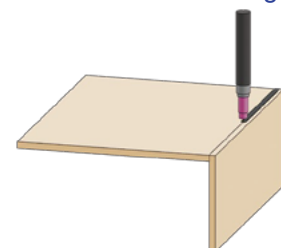


Specification

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.

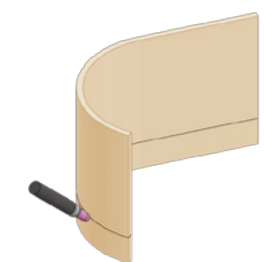
High-performance magnetic increases the reliability of profiling welding and also ensure a smooth operation.

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



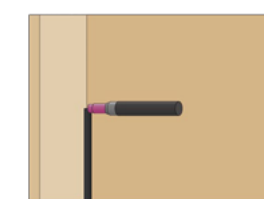
▲ Angle Welding



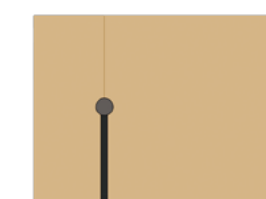
▲ Flat Butt Welding



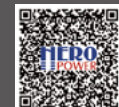
▲ Side Suction Welding



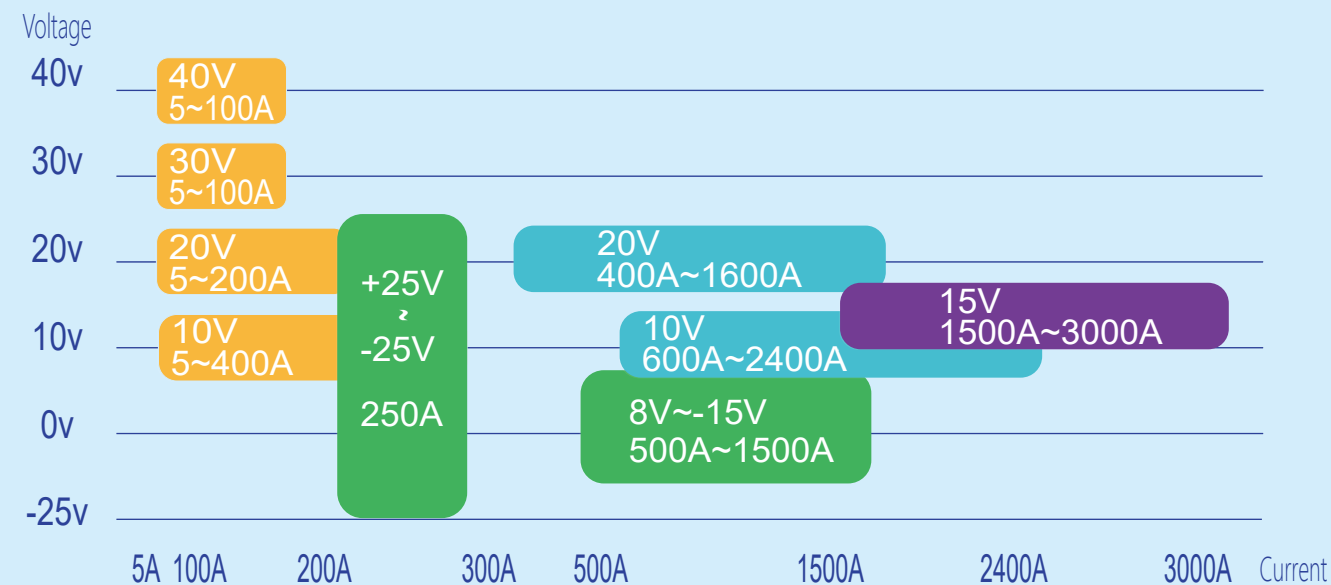
▲ Corner Welding



▲ Vertical Butt Welding

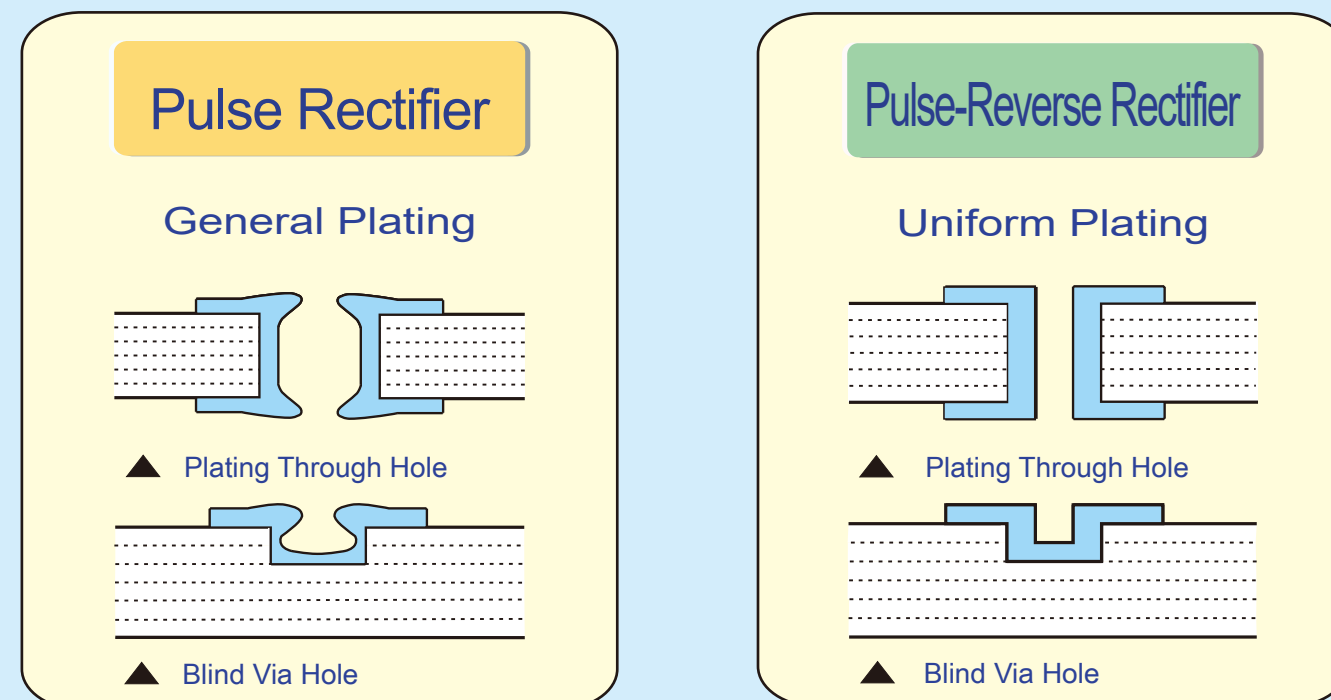


Specification



- ABD Digital Pulse Rectifier
- ABP Digital Forward Pulse Rectifier
- ABU Digital Pulse-Reverse Rectifier
- ABDD ABD+HMI & PLC Parallel connection
- ABDX High Current

Pulse characteristic difference



ABD



40V, 5~100A
30V, 5~100A
20V, 5~200A
10V, 5~400A

620*450*135mm

ABP



40V, 5~100A
30V, 5~100A
20V, 5~200A
10V, 5~400A

555*405*225mm

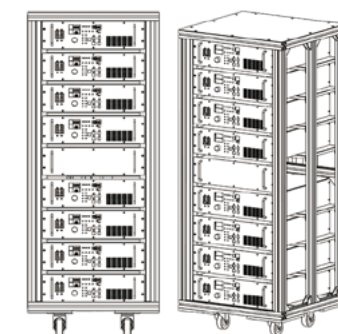
ABU



25~-25V,
250A
8~-15V,
500~1500A

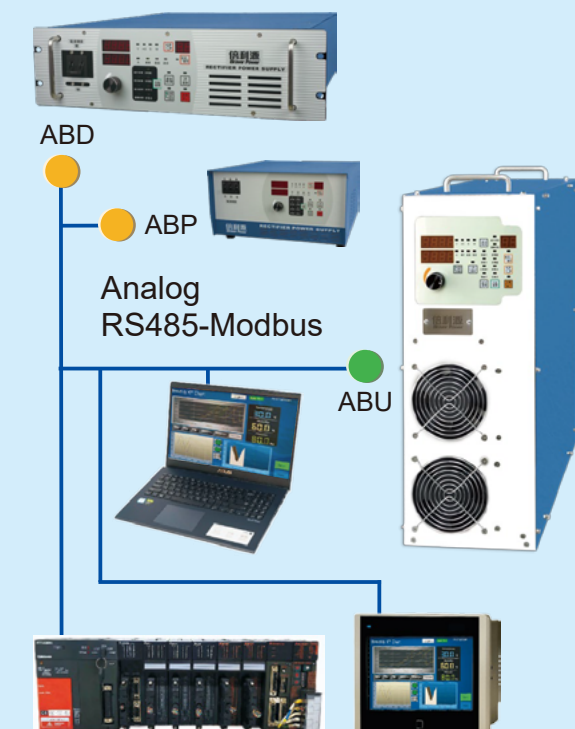
200*500*530mm

ABDD



10V,
600~2400A

20V,
400~1600A



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

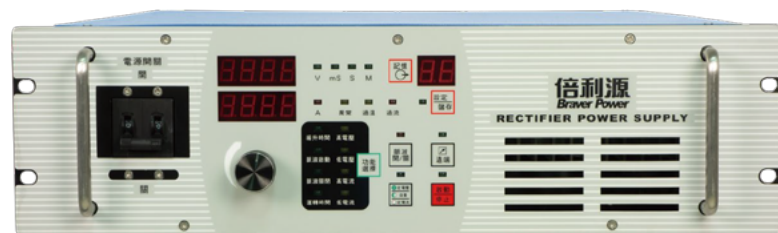
- Abnormal light display
- Over temperature & current display
- High/low voltage and current display
- 99 groups of programs for job selection
- C.C & C.V design
- AUTO mode

Applications

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

Dimension

(W)620*(D)450*(H)135mm



ABD Pulse Rectifier

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

Custom designs available



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

Dimension

(W)555*(D)405*(H)225mm



ABP Forward Pulse Rectifier

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

Custom designs available





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 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

Dimension

(W)200*(D)500*(H)530mm



Pulse Reverse Rectifier

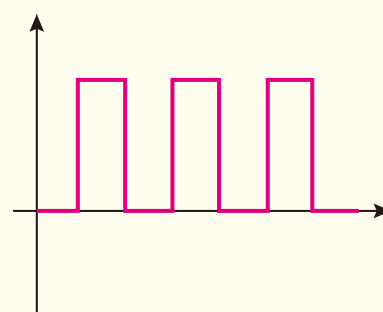
Rated input voltage	220V,1/3Φ; 380/440V,3Φ ±15%
Phase	3Φ
Frequency	47~63 HZ
Rated input power	8.75 KVA
Average rated input current	28 Aac (+15%,-10%)
Output voltage range	0~25 Vdc
Output current range	0~250 Adc
Positive current	250A
Negative current	250A
C.C control accuracy	±3.0%
Pulse mode switching	High and low single pulse
	Positive and negative pulse
	Positive and negative double pulse
Connection method	Analog / Modbus RTU
Positive current time	1~200ms
Negative current time	1~200ms

Custom designs available

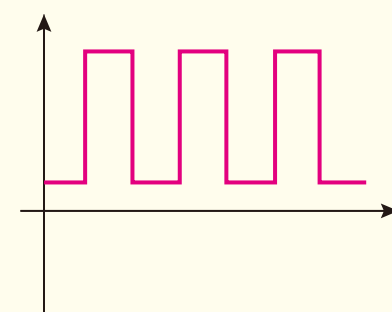


Pulse Waveform diagram

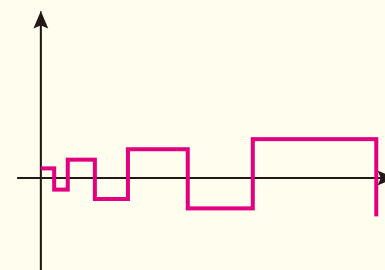
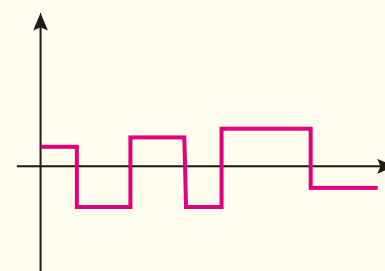
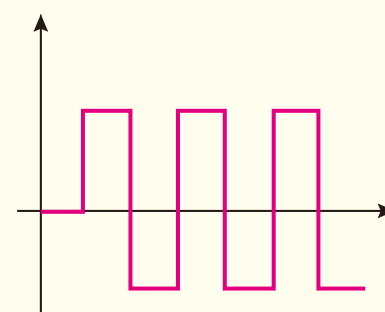
● ABD Pulse Rectifier



● ABP Forward Pulse Rectifier



● ABU Pulse-Reverse Rectifier



Output Current is adjustable and programmable current waveform, and the aspect ratio of each segment can be adjusted as required.

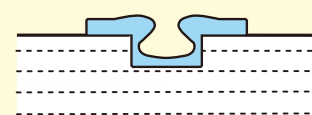
Pulse and Pulse-Reverse Plating

Pulse- Rectifier

General Plating



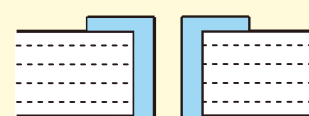
▲ Plating Through Hole



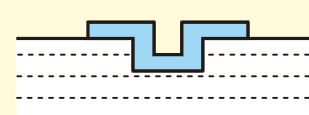
▲ Blind Via Hole

Pulse-Reverse Rectifier

Uniform Plating



▲ Plating Through Hole



▲ Blind Via Hole

Digital Communication Link System

