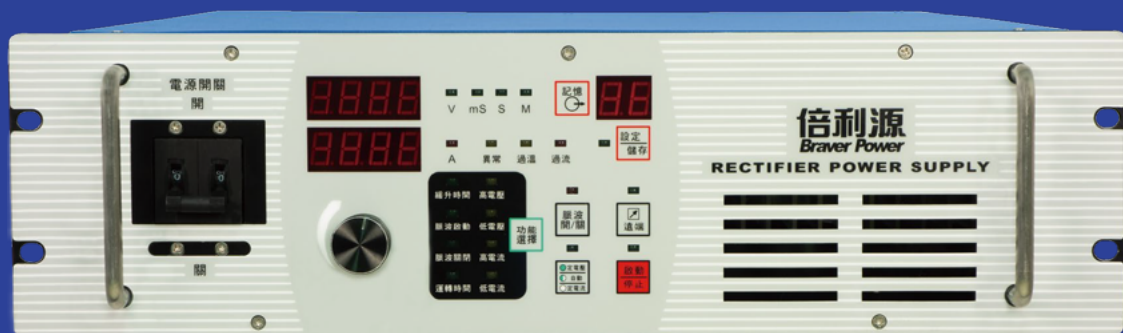


倍利源

Braver Power

Rectifier



Tailor-Made · Seamless Cross-Brand Upgrade

Compatible with multiple control protocols, seamlessly integrated into existing lines
Cut downtime costs with smooth, disruption-free replacement



Made in Taiwan · Local Support

Local team provides instant support, ensuring uninterrupted service
Stable local production and reliable supply, clear communication with peace of mind



3-Year Warranty · Premium Quality at a Fair Price

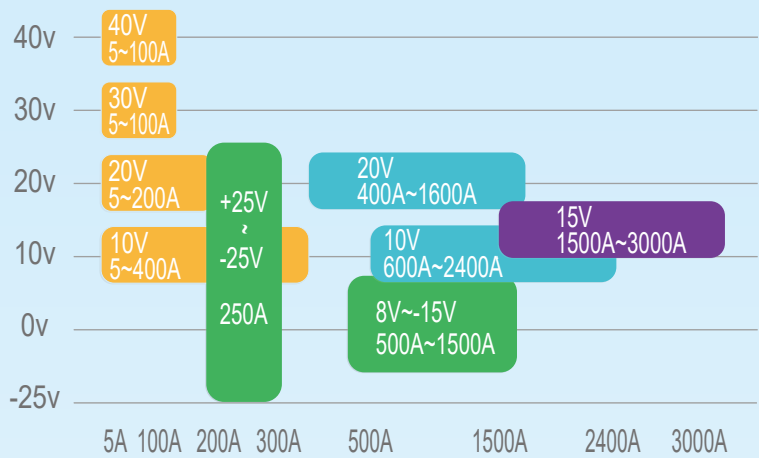
Carefully selected materials, field-proven performance, stable and durable
High efficiency and reliability, better cost-performance than competing products



Brand-Free · Trade-In Program Available

Upgrade to next-generation rectifiers for doubled performance and faster ROI
Special project discounts make production line upgrades more affordable and effortless

Specification



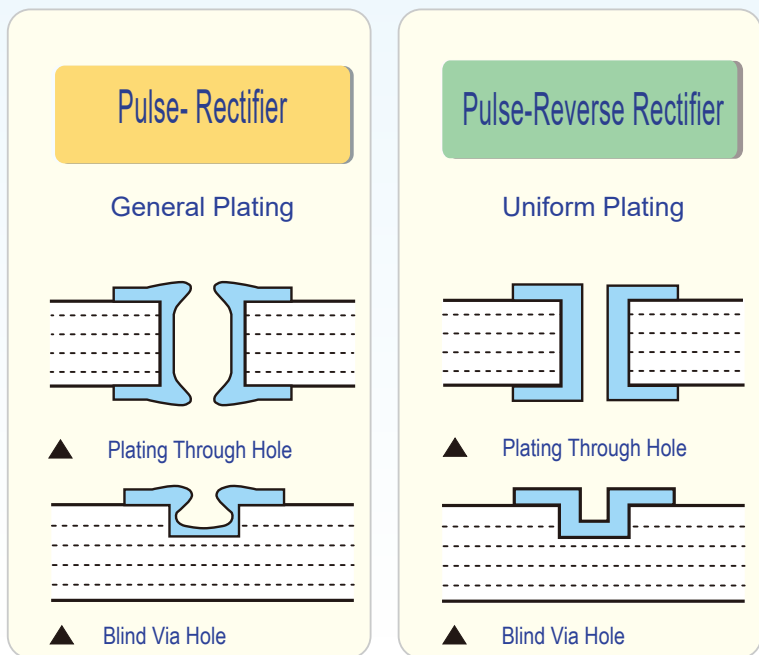
- ABD Pulse Rectifier
- ABP Forward Pulse Rectifier
- ABU Pulse-Reverse Rectifier
- ABDD ABD / ABP+ HMI & PLC
- ABDX High Current

ABDD supports high-current processes

ABDD modular parallel design, compatible with ABD or ABP rectifiers, integrated with HMI and PLC control, enables current output up to 2400A to fully meet high-current process demands.

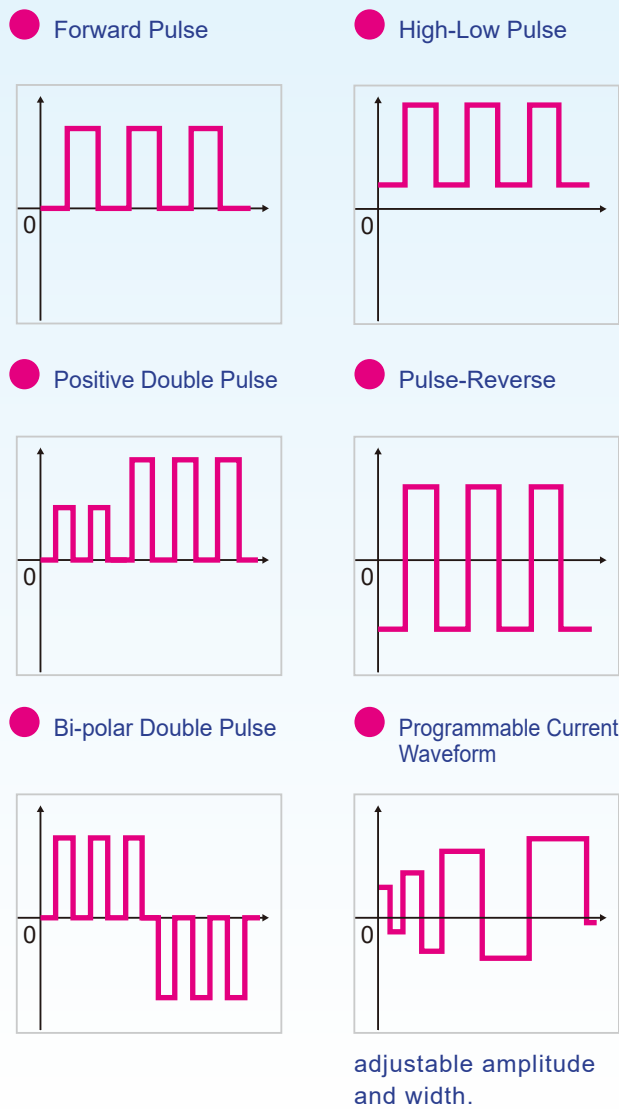


Pulse and Pulse-Reverse Plating

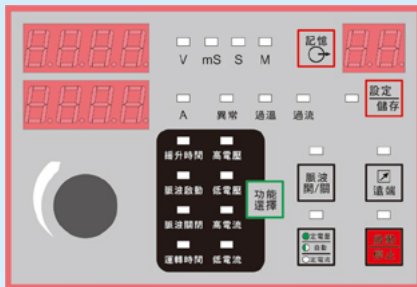


Model	Voltage	Current	Cooling
ABD ABP	10V	5~400A	Air cooling
	20V	5~200A	
	30V	5~100A	
	40V	5~100A	
ABU	+25~-25V	250A	Air cooling
	+8~-15V	500~1500A	Water cooling
ABDD	10V	600~2400A	Air cooling
	20V	400~1600A	
ABDX	15V	1500~3000A	Water cooling

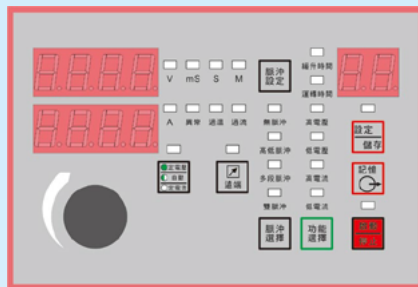
Pulse Waveform diagram



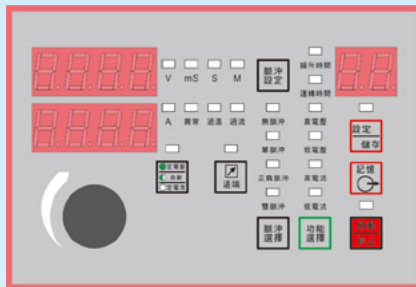
ABD Series



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

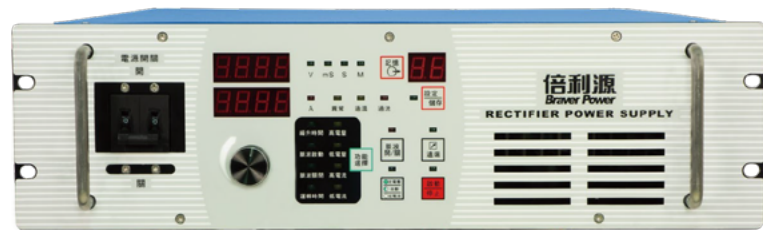
Functions

- 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

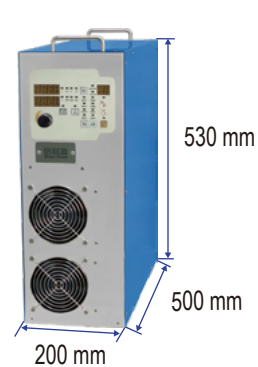
Rated input voltage	220V , 1/3Φ 380V/440V,3Φ
Input frequency	47~63HZ
Output voltage noise and ripple	<0.1%
Output current ripple	<1%
Line regulation rate	0.1% of maximum output voltage/current
Load regulation rate	0.1% of maximum output voltage/current
Meter accuracy	±(1% +1 digit) of maximum output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

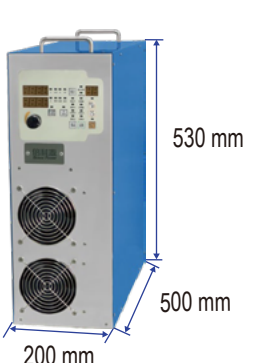
Rated input voltage	220V , 1/3Φ 380V/440V,3Φ
Input frequency	47~63HZ
Output voltage noise and ripple	<0.1%
Output current ripple	<1%
Line regulation rate	0.1% of maximum output voltage/current
Load regulation rate	0.1% of maximum output voltage/current
Meter accuracy	±(1% +1 digit) of maximum output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

Standard chassis sizes available, also customizable upon request.

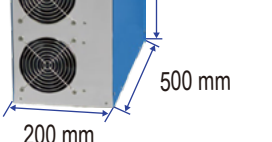
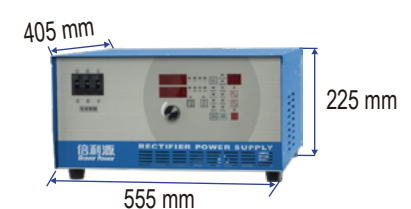
1 3U Cabinet



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

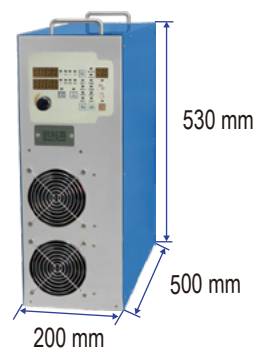
Rated input voltage	220V,1/3Φ; 380/440V,3Φ ±15%
Phase	3Φ
Frequency	47~63 HZ
Rated input power	8.75 KVA
Average rated input current	28 Aac (+15%,-10%)
Output voltage range	0~25 Vdc
Output current range	0~250 Adc
Positive current /time	250A / 1~200ms
Negative current /time	250A / 1~200ms
C.C control accuracy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