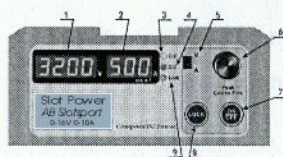


# AB Slotsport Slot Power Power supplies

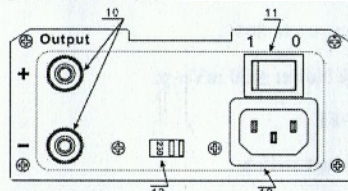
## Panel Layout

EN

## 2 Panel Layout



Left Volt-Right meter layout



0-16v 0-10A  
0-16v 0-20A  
Versions

No.	Name	Shown in diagram or State	Function
1	Volt meter		Display the setting voltage or the actual output voltage
2	Current meter		Display output state(OFF, OVP, OCP, OTP) and the setting or outputting current value (If it has mA symbol, when output current below 1A, it displays mA)
3	Constant voltage indicator	Turn ON/OFF	Turn ON—Constant voltage state
4	Constant current indicator	Turn ON/OFF	Turn ON—Constant current state
5	Voltage/Current select switch	V or A	Switch to V to adjust voltage Switch to A to adjust current
6	Adjusting Knob		Rotation—increase or decrease Push— Coarse/Fine
7	ON/OFF		Click—output on or output off Push it for 5 seconds to set the output on at turn on the power supply.

## Operation

EN

8	LOCK		Click, lock/unlock. In the lock state(Lock light is on), adjusting knob and ON/OFF button can't change output state.
	Or WATT		Click, current meter displays the output power for 5 seconds.
9	Lock or Watt light	Turn ON/OFF	Indicate the function of lock or watt.
10	Output Terminal		Red—Output '+/-' Black—Output '-'
11	Power Switch		Power ON/OFF
12	AC Socket		AC Input Socket
13	Operating voltage Select Switch		Number "115": Rated input 110-120VAC Number "230": Rated input 200-240VAC

## 3 Function and Operation

### 3.1 Select the operating AC

Select the operating voltage carefully according to the input voltage of AC mains. Please set the switch to 115 if the AC mains are 100-120Vac. The default factory set is 230Vac input

like right picture

Warning: If the switch is set to 115, do not plug into 200-230Vac mains, otherwise the power supply will be damaged.

### 3.2 Set the Output Voltage

Three steps to set the output voltage. ① Put the adjusting selective switch to "V"; ② Click the adjusting knob to select adjust digit; ③ Adjust the knob to set the highlight digit. Click the knob the volt meter display the setting value and the adjustable digit highlight, the highlight will shift from right to left when user clicks the knob continually.

For example: How to set the output voltage to 24.15V. You can set the four number 2-4-1-5 one by one. At first, click the knob, the rightmost digit of the volt meter highlight, adjust the knob to set the highlight digit to 5, then click the knob again the highlight will shift to left, adjust the knob to set the highlight digit to 1, then set the highlight digit to 4 and 2 in the same way, finally the output voltage is set to 24.15V.

So it will be seen that the adjusting knob (6) can be used to adjust voltage in one of three steps by clicking the control knob to give 0.01V, 0.1v or 1 V steps while adjusting voltage.

## Operation

EN

### 3.3 Set the Output Current

The procedure is same as the voltage setting. But the first step is switching the adjusting selective switch to "A".

### 3.4 Turn On or Turn Off Output

When the output is turned off, the ammeter highlights "OFF". Press "ON/OFF" , the output turns on. Then click the button again, the output turns off.

### 3.5 Set the output on at the AC power on

Press "ON/OFF" button for 5 seconds, ammeter highlights "dOn" for 2 seconds, the output is set to on at the AC power on. To cancel this function, press "ON/OFF" button again for 5 seconds, ammeter highlights "dOF" for 2 seconds, The output is off at the AC power on.

### 3.6 Lock

This function is configured on the model without suffix "L". Click "Lock" button , the lock light turns on, ON/OFF button and adjusting knob are disabled. To cancel the function please click the "Lock" button again and the lock light turns off.

## Safety Regulations

EN

### Safety Regulations

To avoid electrical shock, non-authorized person of our company is not allowed to open the cabinet.

It is forbidden to use this product for life support system or any other devices with high safety requirements.

We are not responsible for any direct or indirect financial damage that might occur when using the power supply.

This product is warranted against defects in material and workmanship for a period of 12 months from date of delivery.

For warranty service, this product must be returned to a service facility designated by our company. Customer shall prepay one-way freight to our maintenance department for products. Our company shall pay for return freight. Customer shall pay all freight, duty and taxes if the product is back from foreign countries for repair.

### Limitation of Warranty

The foregoing warranty shall not apply to defects resulting from improper or inadequate maintenance by the customer, customer-supplied software or interfacing, unauthorized modification or misuse, operation outside of the environmental specifications for the product, or improper site preparation and maintenance, installing circuit by the customer or using their own product, changing, deleting, removing or unrecognizing the product model or serial number, accident including but not limited to lightning stroke, water, fire, misuse or neglect.

### WARNING

**Before plugging into local AC mains, carefully to set the operating voltage select switch according to the AC Input Voltage.(115:100-120Vac, 230:200-240Vac)**

**Do not use this power supply near water.**

**Do not operate or touch this power supply with wet hands.**

**Do not open the casing of the power supply when it is connected to ac mains.**

### CAUTION

Use a grounded 3 pin AC source.

This unit is for indoor use only.

Do not operate or place this unit in a humid, dusty, in direct sunlight location or near any heat source.

Do not block any ventilation openings of the unit.

This unit must be used within the specified rating; regular excessive continuous loading may cause damage to the power supply.

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## 4 Protection

### 4.1 Over Voltage Protection

MCU controls the tracking OVP. OVP value is relevant to the setting voltage. This function protects the appliance which connected to the power supply safely.

When OVP is triggered, MCU shuts down the output and the ammeter highlights "OUP". Click ON/OFF button to reset the OVP if the over voltage problem has been resolved.

### 4.2 Over Current Protection

MCU control the tracking OCP, OCP value is relevant to the setting current. This power supply can operate constant current mode, so if the C.C works normally the OCP never be triggered; However if the C.C works abnormally the tracking OCP will protect the appliance which connected to the power supply safely. When OCP is triggered, MCU shut down the output and ammeter highlights "OCP", click ON/OFF button to reset the OCP if the over current problem has been resolved.

### 4.3 Over Temperature Protection

The MCU monitor the temperature of the power supply, if the temperature is higher than the special value MCU shut down the output and ammeter highlights "OTP", press ON/OFF button to reset the OTP if the temperature lowered.

## Product Features

- Controlled by microprocessor (MCU), high cost-effective.
- High power density, smallest and compact
- Aluminum shell, lower EMI
- Using Encoder to set the voltage and current
- High efficiency, up to 88%.
- Low Ripple & Noise:  $\leq 30$  mVp-p.
- Output ON/OFF
- Lock switch/Watt switch
- Soft start without overshoot, protect sensitive device
- Intelligent protection: Output short circuit protection, Tracking Over Voltage Protection (OVP), Tracking Over Current Protection (OCP), Over Temperature Protection (OTP)

## Specification

0-16V 10A version

Operation Voltage Range	198 – 264Vac
Operation Frequency Range	45 – 65HZ
Output Voltage Range	0 – 16V
Output Current Range	0 – 10A
Efficiency (220Vac/full load)	$\geq 86\%$
Full Load Input Current (220Vac)	$\leq 1.5A$
No Load Input Current (220Vac)	$\leq 100mA$
Volt Meter Accuracy	$\leq 0.3\% + 1\text{digit}$
Current Meter Accuracy	$\leq 0.3\% + 2\text{digits}$
<b>Constant Voltage</b>	
Load Regulation (0-100%)	$\leq 50mV$
Line Regulation(198-264Vac)	$\leq 10mV$
Ripple & Noise (Peak-Peak)	$\leq 30mV$
Ripple & Noise (r.m.s)	$\leq 3mV$
Set Accuracy	$\leq 0.3\% + 10mV$
Transient Response Time (50%-100% Rated Load)	$\leq 1.0ms$
<b>Constant Current</b>	
Load Regulation (90%-10% Rated Voltage)	$\leq 50mA$
Line Regulation (198-264Vac)	$\leq 10mA$
Ripple & Noise (Peak-Peak)	$\leq 30mAp-p$
Set Accuracy	$\leq 0.3\% + 20mA$
Size(width* height* depth)	120*55*168mm
Net Weight	0.85KG

0-16V 20A version

Operation Voltage Range	198 – 264Vac
Operation Frequency Range	45 – 65HZ
Output Voltage Range	0 – 16V
Output Current Range	0 – 20A
Efficiency (220Vac/full load)	$\geq 87\%$
Full Load Input Current (220Vac)	$\leq 2.5A$
No Load Input Current (220Vac)	$\leq 120mA$
Volt Meter Accuracy	$\leq 0.3\% + 1\text{digit}$
Current Meter Accuracy	$\leq 0.3\% + 2\text{digits}$
<b>Constant Voltage</b>	
Load Regulation (0-100%)	$\leq 50mV$
Line Regulation(198-264Vac)	$\leq 10mV$
Ripple & Noise (Peak-Peak)	$\leq 30mV$
Ripple & Noise (r.m.s)	$\leq 3mV$
Set Accuracy	$\leq 0.3\% + 10mV$
Transient Response Time (50%-100% Rated Load)	$\leq 1.0ms$
<b>Constant Current</b>	
Load Regulation (90%-10% Rated Voltage)	$\leq 50mA$
Line Regulation (198-264Vac)	$\leq 10mA$
Ripple & Noise (Peak-Peak)	$\leq 30mAp-p$
Set Accuracy	$\leq 0.3\% + 20mA$
Size(width* height* depth)	120*55*240mm
Net Weight	1.20KG

**Please Note;- This power supply contains no user serviceable parts. Opening this unit invalidates the warranty.**

*AB Slotsport*

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