

JB400D Series 400W Dual Outputs

POWER
SOLVE

200W ~ 400W AC-DC PFC MEDICAL & ITE APPROVED POWER SUPPLY JB400D DUAL OUTPUT SERIES



FEATURES:

- ◆ Safety Approvals to IEC/EN/UL60601-1 3rd Edition
- ◆ High Quality & Reliable Component Usage
- ◆ Variable Fan Speed & Low Acoustical Noise
- ◆ 5/ 12/ 24V Dual Output Optional Combinations
- ◆ U-Chassis Type drive max 250W under air convection
- ◆ Active Power Factor Corrected to EN61000-3-2 class D
- ◆ U-Chassis & Enclosed with built-in fan Mechanical Options



PRODUCT SPECIFICATIONS:

Input Voltage: 90 ~ 264Vac full range, 47 ~ 63Hz.

Input Current: 6.35A at 90VAC full load.

Inrush Current: 70A Max @ 230VAC with full load and cold start.

Power Factor Correction: 0.98 @ Vin: 230Vac full load.

Fan Drive: 12VDC/400mA is available to drive an external fan.

Transient Response: Returns to within 1% in less than 2.5ms for a 50% load change and the peak transient does not exceed 5%.

Overshoot: Turn-on/off not exceed 5% over nominal voltage.

Efficiency: 752% ~ 85% depends on model.

Turn On Delay: 1 second maximum at 230 VAC.

Hold Up Time: 20ms min. at 80% of full load.

Adjustability: Output user adjustable +/-5% minimum.

Remote On-Off: Designated as RSW on the CN3, requires a low signal to inhibit output.

Power Supply On: Green LED designated as LED 1 on the PCB.

LED display: Bi-color green LED in front panel (RL0402DE only);

Any protection occurred or RSW applied low signal will emit orange.

Power Good: PG on CN3 goes high 100-500ms after DC regulation and low at least 1ms before loss of regulation (Open collector).

Input Circuit Protection (primary): Two T8A/250V fuses inserted.

Input Voltage Protection: Power shut down under 80 +/-5Vac, and recovered over 86Vac.

Over-Power Protection: 110~140% of I-Max and auto-recovery.

Over-Voltage Protection: Latching down will occur when output voltage exceed 130% and recycle AC input to reset.

Over Temp. Protection: Protected at ambient 85C; Auto-recovery.

Short Circuit Protection: Trip without damage and auto-recovery.

Operating Temperature: 0°C to +70°C ambient, de-rating at 2.5% per degree from +50°C to +70°C.

Switching Frequency: 30KHZ fixed frequency.

Storage Temperature: -20 to +85 degrees C.

Operating Humidity: 5% to 90% RH, Non-condensing.

Storage Humidity: 5% to 95% RH, Non-condensing.

Vibration: Frequency 5 to 50 Hz, acceleration +/-7.35 M/(SxS) on X,Y and Z Axis.

EMC: EN60601-1-2/EN61204-3 Class B conducted / radiated; EN61000-3-2,3; IEC61000-4-2, 3, 4, 5, 6, 8, 11.

Safety: EN/ IEC/ UL60601-1 3rd edition; EN / IEC / UL62368-1.

Leakage Current: Medical degree < 200uA; ITE degree < 1.5mA.

HI-POT Test: 1600 VAC between input line and chassis (2mA DC cut off current); 4000VAC between primary and secondary windings; Primary to core 1800VAC. All for 3 sec.

Grounding Test: Apply 40 A from ground pin to the earthed connection point. Maximum allowable resistance is 0.1ohm.

Warranty: 2 years.

MTBF: 100000 Hrs (according to MIL-HBK-217F) at 30°C.

Cooling: JB400DU Series: U-Chassis @400W max. with 23CFM airflow or 250W max. under convection cooling.

JB400DE Series: Enclosed with side built-in fan @400W max. **Burn in:** 45 +/- 5 degree C for 1 hour @230Vac with full load. **Enclosure:** JB400DU Series: 8(L) x 5(W) x 1.6(H) inches. JB400DE Series: 9(L) x 5(W) x 1.6(H) inches.

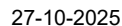
Weight: JB400DU Series: 1.3KG; JB400DE Series: 1.6KG.

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Model Number	Output Voltage	Max. Output Current		Total Regulation	Ripple & Noise
		Convection	22.95CFM		
JB400Dx0512	V1: +5V	30A	40A	+/- 5%	+/-1%
	V2: +12V	16.7A	25A	+/- 5%	+/-1%
JB400Dx0524	V1: +5V	30A	40A	+/- 5%	+/-1%
	V2: +24V	8.34A	12.5A	+/- 5%	+/-1%
JB400Dx1224	V1: +12V	16.7A	25A	+/- 5%	+/-1%
	V2: +24V	8.33A	12.5A	+/- 5%	+/-1%

* JB400Dxy Series where x = **E** (Enclosed with built-in Fan Type) or **U** (U-Chassis Type), y =**0512, 0524 and 1224**.
 * 10% minimum load is required for all outputs to maintain the ripple and regulation. Output is fully isolated.
 * Total combined power of V1 and V2:
 400W Max. with 22.95 CFM forced air and 250W convection cooling for JB400DU1224; 400W for JB400DE1224 by self-cooling. 300W Max. with 22.95 CFM forced air and 200W convection cooling for other JB400DUy; 300W for other JB400DEy by self-cooling.

JB400DU Series (U-Chassis Type): 8(L) x 5(W) x 1.6(H)inches; Weight: 1.3kg



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This diagram illustrates the exploded view of the 1000BASE-T SFP module assembly. It shows three main components: the top SFP module, a middle mounting bracket, and the bottom base module. The top module features a multi-pin connector on its right side. The middle bracket has a circular latch mechanism on its left. The bottom module includes a circular latch and a small rectangular label on its left side. The components are shown in a perspective view, indicating their relative positions for assembly.

