

ORION-2003

OEM

400W+200W (N+1) Redundant Switching Power Supply



Features	Values / Benefits
Apply true load-sharing N+1 design	High reliability & redundancy
Three 200W hot-swap redundant modules	Total 600W for heavy loading system
Alarm beeping and LED indicator	Easy for maintenance
Provide 1.5A for stand-by +5V	Meet ATX2.01 Spec. for newest ATX M/B
+3.3V on each module	Real redundant design for +3.3V output
+5V,+12V,+3.3V o/p have OVP design	No worry for any DC o/p damage
2-Layer, FR-4, 94-V0 PCB	Good reliability for industrial grade PSU
Silver plated German DIN connector	Extra reliability for high current situation
Ball-bearing NMB fan	Good reliability
Use 15A/400V power transistor	High current tolerance with longer durability
2 pcs of 30A/40V parallel for +5V diode	Durability twice better than normal PSU
20A/200V (Fuji D92-02) for +12V diode	Durability twice better than normal PSU
Varistor installed	Absorb more inrush spike
Remote sense installed	Auto-adjust M/B loading & o/p voltage
Output power connector	One ATX & one P8P9 connector

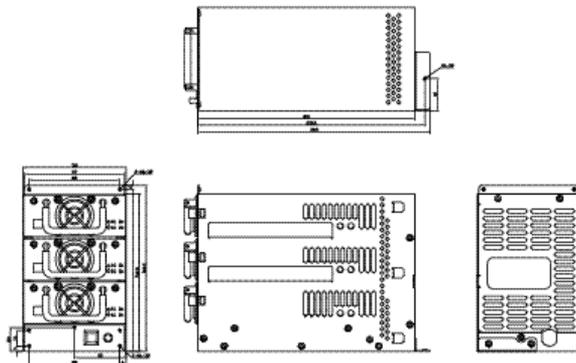
ORION-2003 is a "state-of-the-art" design to the traditional power supply market. It is smart not only in the PSU circuit design, but also in the mechanical design. Besides, it is easy to hot swap the modules. Together with its compactness, it brings a lot of benefits to customers in non-stop computing environment.

The "N+1" load sharing technology is the trend for high-end switching power module. With this feature, customers can expand the power on their demand. It surely meets the growing demand for the mission critical application.

Specifications

♦ Input	Voltage	90V ~ 132V, 180 ~ 264V selectable				
	Frequency	47 ~ 63 Hz				
	Current	9A@115V, 5A@230V				
♦ DC Output		+5V	+3.3V	+12V	-5V	-12V
	Max. Load	40A	32A	14A	1A	1A
	Min. Load	3A	0.3A	0.5A	0A	0A
	Max. Watt.	380W		5W	12W	
	Load Reg.	+/-5%	+/-4%	+/-5%	+/-10%	+/-10%
	Cross Reg.	+/-5%	+/-4%	+/-5%	+/-10%	+/-10%
	Line Reg.	+/-1%	+/-1%	+/-1%	+/-1%	+/-1%
Ripple	+/-1%	+/-1%	+/-1%	+/-1%	+/-1%	
Noise	+/-1%	+/-1%	+/-1%	+/-2%	+/-2%	
♦ Efficiency	> 65%					
♦ Holdup Time	20ms. at full load					
♦ Hi-Pot Test	1.5KVRMS, 60sec. from i/p to ground 3.0KVRMS, 60sec. from i/p to o/p					
♦ Over Voltage Protection	+5V: 5.6V ~ 6.5V/+3.3V: 3.8V ~ 4.3V +12V: 13.6V ~ 15.6V					
♦ Over Load Protection	Total o/p 110% ~ 130%					
♦ MTBF	> 100,000hrs					
♦ EMI & Safety Approval	TUV, UL, CE, FCC					
♦ Temperature/Humidity	Operating : 0 ~ 50°C, 20 ~ 90%RH Storage : -20 ~ 60°C, 5 ~ 95%RH					
♦ Dimension (WxDxH)	100x210x170 mm / 4"x8.3"x6.7"					

Engineering Drawing



Ordering Guide

- ♦ **ORION-2003**
400W+200W (N+1) redundant PSU (total 600W output), with one ATX & one P8P9 output connectors