

ORION-4005

400W+400W Horizontal Type ATX Redundant Power Supply



ORION-4005 is a horizontal type dual PS/2 size redundant power supply with ATX (Ver. 2.01) output for "Mission Critical" applications.

The power supply is designed with separate AC inputs to get zero down time for real-time disaster recovery and the remote DC sense to have the best reliability for the non-stop computing systems.

Ordering Guide

- **ORION-4005**
400W+400W dual PS/2 type ATX redundant PSU
- **ORION-3005**
300W+300W dual PS/2 type ATX redundant PSU

Features	Values / Benefits
Apply true load-sharing N+1 design	High reliability & redundancy
Two 400W Hot-swap redundant modules	Total 800W for heavy loading system
Alarm beeping and LED indicator	Easy for maintenance
Passed the 72 hrs 400W load burn-in test	Real & full 400W redundant PSU
Provides 1A for stand-by +5V	Meets ATX2.01 for newest ATX M/B
+3.3V on each module	Real redundant design for +3.3V output
Each DC o/p voltage has OCP design	No worry for any DC o/p to damage
+5V,+12V,+3.3V o/p have OVP design	No failure on each DC o/p short test
Dual AC input	AC input redundancy for safety
2-Layer, FR-4, 94-V0 PCB	Good reliability for industrial grade PSU
Ball bearing NMB fan	Good reliability
Uses 3A components for -5V / -12V	Suitable for CTI systems
Uses 15A/400V power transistor	High current tolerance w/ 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	Absorbs more inrush spike
Remote sense installed	Auto-adjust M/B loading & o/p voltage

Specifications

♦ Input	Voltage	AC 90 ~132V, 180 ~264V selectable				
	Frequency	47 ~63 Hz				
	Current	9A@115V, 5A@230V				
♦ DC Output		+5V	+12V	+3.3V	-5V	-12V
	Max. Load	50A	15A	30A	1.5A	1.5A
	Min. Load	3A	1A	0A	0A	0A
	Max. Watt.	370W		2.5W 18W		
	Load Reg.	+/-5%	+/-5%	+/-5%	+/-10%	+/-10%
	Cross Reg.	+/-5%	+/-5%	+/-5%	+/-10%	+/-10%
	Line Reg.	+/-1%	+/-1%	+/-1%	+/-1%	+/-1%
	Ripple	+/-1%	+/-1%	+/-1%	+/-1%	+/-1%
Noise	+/-1%	+/-1%	+/-1%	+/-2%	+/-2%	
♦ Efficiency	> 70%					
♦ 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	> 100,000 hrs					
♦ Temperature/Humidity	Operating : 0 ~50°C, 20 ~90%RH Storage : 0 ~70°C, 5 ~95%RH					
♦ Dimension (WxDxH)	353x201x105 mm / 13.9"x7.9"x4.1"					

Engineering Drawing

