



CRPS Redundant PSU FSP1200-50FS (1200W)

DESCRIPTION

FSP1200-50FS is a high quality industrial level, CRPS Redundant switching power supply. It offers the total power capacity up to 1200 Watts, and employs 80+ Platinum design, making it perfect used in different industrial environments. With its CRPS redundant form factor and output electrical features, this power supply is the best choice for Data Center, Storage Server, Tower Workstation, Rackmount Server and any other industrial applications

APPLICATION

Data Center, Storage Server, 2U/3U/4U Rackmount Server, Workstation, Broadcasting, Networking and Industrial Server

FEATURES

- * 80 Plus Platinum - compliant
- * CRPS Form Factor Redundant Power Supply
- * Well working performance at 55°C (24 hours running)
- * Dual Input-AC Input (90~264Vac)/HVDC (180~310Vdc)
- * Built-in Active PFC function (90-264VAC)
- * Support OTP, OVP, OCP, SCP and FFP protection
- * 100% burn-in under high ambient temperature (50°C)
- * Operation up to 5000 meters Altitude
- * Comply with FCC, CB, TUV, CE and CCC certification
- * PMBus 1.2 for Digital Power Management
- * MTBF > 100K hours at 25°C, nominal input
- * 100% Hi-pot tested (1800Vac)

INPUT SPECIFICATIONS

Input Range:	AC 90-264 Vac, HVDC 180~310Vdc
Input Frequency:	47-63 Hz
Input Current:	max. 12A @115V / 6A @230V
Power Factor:	0.98 @115V/60Hz, 0.95 @230V/50Hz
Leakage Current:	max. 3.5 mA @ 264Vac/63Hz

OUTPUT SPECIFICATIONS

Output Voltage/Current:	see rating chart.
Max. Output Power:	see rating chart.
Ripple & Noise:	+3.3V, +5V, 5VSB: 50mV p-p +12V, -12V: 120mV p-p
Over Voltage Protection:	+3.3V: 3.9V ~ 4.5V / +5V: 5.7V ~ 6.5V +12V: 13.3V~14.5V / -12V: -13.3~-14.5V
Over Current Protection:	+12V/+5V/3.3V/+5V 110% minimum; 150% maximum
Transient Response:	max. 5% diviation, ripple and noise limit under all operating conditions
Short Circuit Protection:	to prevent output exceeding current limit
Over Temperature Protection:	60°C Warning/65°C CriticalL at Tin env with auto recovery when temp. drop
Over / Undershoot:	max. 10% at turn on/off
Remote On/Off:	On = PSON ≤0,8V, low Off = PSON ≥ 2.0V, high, open

OUTPUT RATING CHART

Model Name	Max. Output Watt.	Output Current																	
		+3.3V		+5V		+12V1		+12V2		+12V3		-12V		-5V		+5VSB			
		Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.		
FSP1200-50FS	1200W	0,0 A	30,0 A	0,0 A	30,0 A	0,5 A	97,0 A							0,0 A	0,3 A			0,0 A	5,0 A

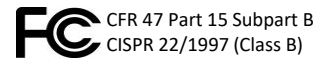
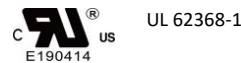
Remark : Max. combined +5V and +3.3V output is limited to total 160W

FSP1200-50FS



Dimension: 250 (L) x 76 (H) x 83.8 (W) mm

SAFETY STANDARD APPROVALS



GENERAL SPECIFICATIONS

Efficiency (Module):	94% @230VAC (50% Load)
Efficiency (Set):	≥ 92% at Max load of 230VAC
Signals:	Power good, TTL compatible
Inrush Current:	55A peak at input voltage 264Vac
Hold-up Time:	min. 12 ms@ 100% Load
Output Rise Time:	max. 50ms measured at 10% to 90%
PWOK Delay Time:	500ms >PWOK>100ms
Hi-Pot	1800Vac at 30mA trigger limit
MTBF:	minimum at continuous operation of 200,000 hours calculated at 100%, according to BELL CORE TR-322 at 25°C excluding the Fan MTBF. At least 100,000 hours including the fan MTBF.
EMC Performance:	EN55022 - Emission EN55024 Immunity - EN61000-4-2, Electrostatic Discharge - EN61000-4-3 Radiated RFI Immunity - EN61000-4-4 Electrical Fast Transients - EN61000-4-5, Electrical Surge - EN61000-4-6, RF Conducted

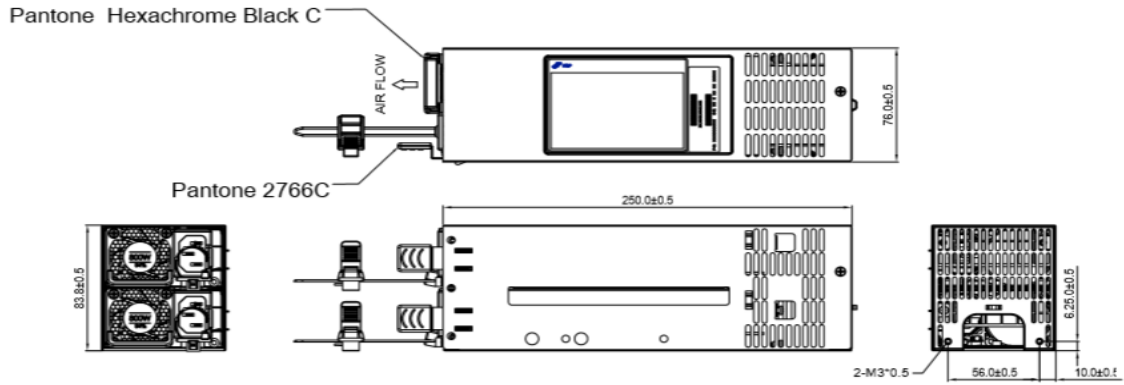
ENVIRONMENTAL SPECIFICATIONS

Operating Temperature:	0°C to +55°C
Storage Temperature:	-40°C to +70°C
Relative Operating Humidity:	5% ~ 90% RH, Non-condensing
Operating Altitude:	Sea level to 5000m
Vibration Operating:	0.01g ² /Hz at 5Hz to 0.02g ² /Hz at 20Hz keep 0.02g ² /Hz from 20 Hz to 500Hz



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MECHANICAL SPECIFICATIONS



FSP1200-50FS					
	24P ATX Mainboard	EPS 8 Pin +12V CPU	SATA Power	4-pin Molex Mini-connector	5-pin 4-cable PMBus
Connector No.	1	5	6 (3*2/cable)	1	1
Length (mm)	500	500	500+150	500	500