FSP550-5Q01A

FEATURES

- 550W CRPS Redundant Power Module
- Full range AC input, Active PFC
- > 90 percentage Efficiency at 50% load
- Working temperature up to 55°C (24 hours working)
- PMBus 1.2 Interface for digital power management
- Full protection functions (OVP, UVP, OCP, OTP, SCP…..)
- Hot-swap module without system shut-down
- Active current sharing function
- Best for Datacenter, storage and AI servers

DESCRIPTION

FSP550-5Q01A is a redundant power supply module based on CRPS 2.0 standard. This power supply offers the total capacity up to 550 Watts, and uses a unique active PFC (Power Factor Correction) circuit design with high-load electrical components, which makes it perfect for use in industrial environments. It also features with PMBus interface, which makes PSU possible to communicate with motherboard for digital power management. In addition, this power supply is ideally the best choice for datacenter, workstation, AI & Edge, industrial automation applications.

GENERAL SPECIFICATIONS

Dimension (L x W x H):	185 x 40.5 x 73.5 (mm)	Environment	
Efficiency:	90% @ 50% load & 230Vac	Working temperature:	0°C to 55°C (Full Loading)
Power factor:	0.98 @50% load, 230Vac 50Hz	Storage temperature:	-40°C to + 70°C
		Working humidity:	95% RH non-condensing
		Storage humidity:	95% RH non-condensing
Hold-up time at 100% loading:	115V / 60Hz: ≥ 16ms	MTBF (SR-332 Issue 2):	250,000 hours of continuous operation at 35°C, 100% output load
	230V / 50Hz: ≥ 16ms		
Input Inrush Current:	35A	Applications:	Datacenter, Storage, AI/Edge, IPC Controller

INPUT SPECIFICATIONS

Input voltage:	90-264Vac/180-310Vdc
Input frequency:	47-63Hz
Input current:	8A @ 90Vac, 100% load

OUTPUT RATING

Total Rated Power	DC Output				
	+12V	+5V	+3.3V	-12V	+5Vsb
550W	0.5~45.8A	0.5~25A	0.8~25A	0~0.5A	0.1~3A

Note: The total rated output power is 550W, and the maximum total power of +5V and +3.3V is 200W

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MECHANICAL SPECIFICATIONS

UNIT: mm

1.unit:mm
2.unmarked tolerance is ±0.2