

DESCRIPTION

FSP280-20FGBBD is a high quality industrial level of PoE switching power supply. The power supply offers the total power capacity up to 280 Watts, and employs active PFC (PF>0.9), 80+ Bronze design, making it perfect used in different PoE Systems. This PoE PSU delivers 53Vdc for PoE device (PD) over unshielded twisted-pair wire, and 12Vdc for system (PSE) mainboard.

APPLICATION

PoE System - PoE Switch, IP Camera, DVR/NVR, IP Telephony, Wireless Access Points (AP), Security Access Control (Card Scanner)

FEATURES

- * 80 Plus Bronze (Efficiency 85% 230VAC)
- * Flex ATX Form factor, fit all kinds of PoE System
- * Built-in Active PFC function, power factor > 0.9
- * Max. 8A @12Vdc, 4A @53Vdc Output
- * Compliant with IEEE 802.3af PoE standard
- * Internal 4 cm 12VDC Fan
- * 12V & 53V are fully isolated with 2 separate transformers
- * Operation up to 5000 meters Altitude
- * Over Current Protection (OCP), Over Voltage protection (OVP)
- * Short circuit protection on all outputs
- * MTBF: 100K hours at 25°C

INPUT SPECIFICATIONS

Input Range:	90-264 Vac
Input Frequency:	47-63 Hz
Input Current:	max. 7.5A @115V / 3.5A @230V
Power Factor:	> 0.9
Leakage Current:	max. 3.5mA @ 240Vac/50Hz

OUTPUT SPECIFICATIONS

Output Voltage/Current:	see rating chart.
Max. Output Power:	see rating chart.
Ripple & Noise:	+12V: 140mV p-p +53V: 400mV p-p
Over Voltage Protection:	+12Vdc: +14V ~ 15.5Vdc @0.1A +53Vdc: +58V ~ 63.0Vdc @0.1A
Over Current Protection:	+12V: max. 10A +53V: max. 5.6A
Transient Response:	max. 5% deviation, recovery to within 10 ms for 50% load change
Short Circuit Protection:	No damage, resistance \leq 0.05Ω
Over Temperature Protection:	Primary & secondary protection with auto recovery
Over / Undershoot:	max. 10% at turn on/off
Remote On/Off:	On = PSON \leq 0.8V, low Off = PSON \geq 2.0V, high, open

OUTPUT RATING CHART

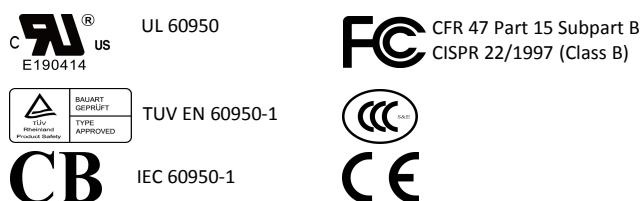
Model Name	Max. Output Watt.	Output Current			
		+12V		+53V	
		Min.	Max.	Min.	Max.
FSP280-20FGBBD	280W	0,0A	8,0 A	0,1 A	4,0 A

FSP280-20FGBBD



Dimension: 81.5 (W) x 40.5(H) x 150.0(L) mm

SAFETY STANDARD APPROVALS



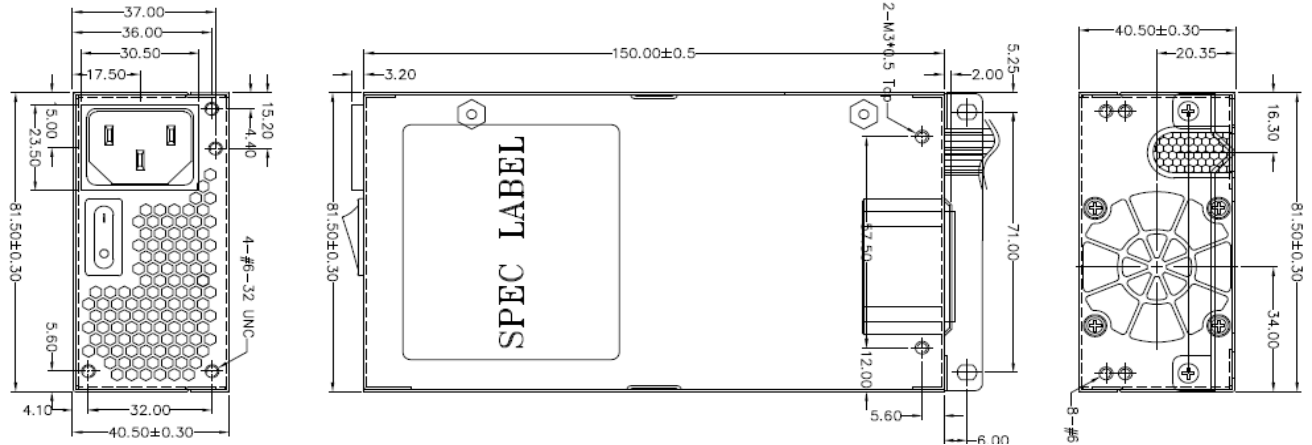
GENERAL SPECIFICATIONS

Efficiency (Module):	85% @230VAC (Typical Load)
Efficiency (Set):	\geq 84% at Max load of 230Vac
Signals:	Power good, TTL compatible
Inrush Current:	should be less than 200A peak
Hold-up Time:	min 20ms @115V/60Hz & @230V/50Hz
Output Rise Time:	max. 20ms measured at +12Vdc & +53Vdc
PWOK Delay Time:	500ms >PWOK>100ms
MTBF:	The power supply shall have a minimum MTBF 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, class B Conducted EN55022, class B Radiated EN61000-3-2, class D EN61000-3-3 EN61000-4-4, level 3 Perf Criteria B EN61000-4-5, level 3 Pref Criteria B EN61000-4-6, 10Vrms, Pref Criteria A

ENVIRONMENTAL SPECIFICATIONS

Operating Temperature:	-10°C to +50°C
Storage Temperature:	-20°C to +80°C
Relative Operating Humidity:	5% ~ 95% RH, Non-condensing
Operating Altitude:	Sea level to 5000m
Vibration Operating:	3g Freq. Range: 10~250Hz duration 15 min for each X,Y,Z axis

MECHANICAL SPECIFICATIONS



Dimension: 81.5 (W) x 40.5(H) x 150.0(L) mm

Connectors

- 1* 4P +12Vdc JWT A3963H02-4P (280mm)
- 1* 2P +53Vdc JWT A3963H02-2P (280mm)