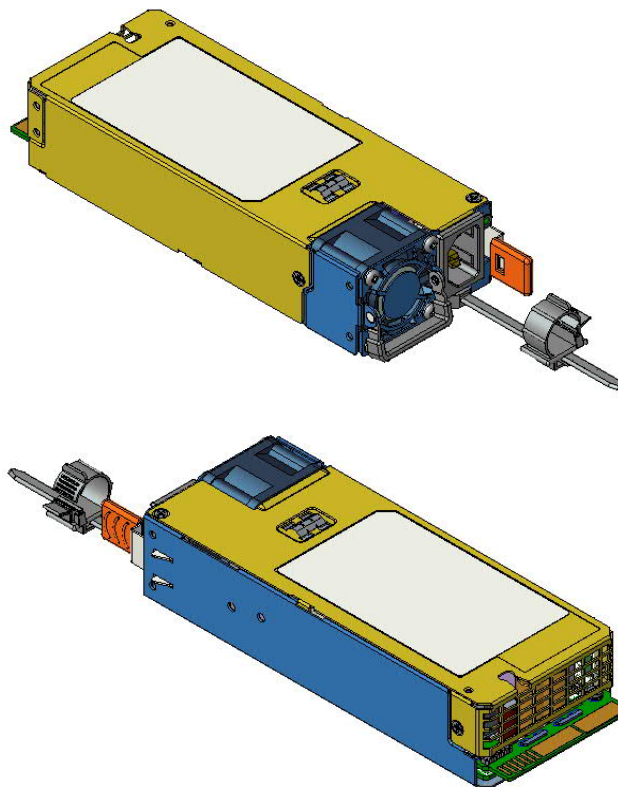


LITEON Server Power Supply 800W

Features:

- 80 PLUS® Platinum
- Holdup Time: $\geq 12\text{ms}$
- AC Input Range 90Vac ~ 264Vac
- DC Input Range 180Vdc~310Vdc
- Output Voltage 12 Vdc
- N+N (N=2 max) Redundant power supply with Hot plug, current sharing
- Self-cooling with fan speed control / one Bi-color LED indicators
- PMBus Compliant 1.2
- Protection include OCP, OVP, UVP, OTP and Brownout
- 800W is in 73.5mm (W) x40.0mm (H) x 185mm (L)
- Altitude: 5,000 meters
- Operating Temperature: 0°C ~ 55°C
- Compliance EMC IEC/EN 61000
- EMI Class A, -6dB margin
- Safety Certificates: IEC/EN 60950-1, IEC/EN62368-1 and UL/CSA62368-1 2nd Ed



Electrical Specifications:

Parameter	Description	Parameter	Description
Input voltage	AC input 90Vac ~ 264Vac DC input 180Vdc ~ 310Vdc	Main Output Voltage (12VDC)	12.2Vdc \pm 5%
		SB Output Voltage (SB)	Reserved
iTHD	50% load < 5%	12VDC Current Rating	66A
Power Factor (PF)	> 0.98 @ 50% load above 208Vac ~ 240Vac	Capacitive Load	2,200uF ~ 22,000uF
		SB Current Rating	Reserved
Efficiency	94% Peak@ 20%~50% load, 80 PLUS® Platinum	Power Rating	800W @ 230Vac&240Vdc
Redundant	N+N Redundant, N=2 maximum	Hold Up Time	12ms

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Protection			
Parameter	Description	Parameter	Description
12VDC OCP	Current is above 85.8A for 11.1s, or Current is above 95.7A for 100ms, or Current is above 99A for 5ms (Latch mode)	SB OCP	Reserved
12VDC OVP	Voltage is above 13.5V~15V (Latch Mode)	SB OVP	Reserved
12VDC UVP	Voltage is below 10V ~ 10.9V (Latch Mode)	Over Temperature	Ambient Temperature (Auto recovery mode)
Input Brownout	Voltage is below 80Vac (Auto recovery mode)	Input OVP	Voltage is above 305Vac (Auto recovery mode)

Control Signal / Indicate Signal / LED			
Parameter	Description	Parameter	Description
PSON_L	Input signal PSON_L = LOW to turn on 12VDC	PMBus	Version 1.2 I2C interface with 100KHz
		ALERT_L	Output signal ALERT_L = LOW to indicate WARNING event (Event Programmable)
PWOK_H	Output signal PWOK_H = High to indicate the 12VDC existence	LED	1Hz Blink Green --> AC present but no output
			2Hz Blink Green --> FW updating
			0.33Hz Blink GREEN(1s OFF,2s GREEN) --> CR mode
			1Hz Blink Amber --> warning Event
			Amber Solid --> Fault protection
			Green Solid --> 12VDC active mode
ACOK_H	Output signal ACOK_H = High to indicate Input existence	ASP	Resistor to set PSU address

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Environment / Reliability			
Parameter	Description	Parameter	Description
Operation Temp.	0°C ~ 55°C	MTBF	200K hours at 100% rated load 230Vac input, 55°C amb. Temp
Operating Humidity	5% ~ 90%	ECAP Life	5 years at 100% rated load 230Vac input, 55°C amb. Temp
Storage Temp.	-40°C ~ 85°C	Air Flow	Normal Mode, From DC to AC
Storage Humidity	5% ~ 95%	Fan Life	5 years at 100% rated load, 55°C amb. Temp
Operating Altitude	5000 meters		

Safety Approvals IEC/EN 60950-1, IEC/EN62368-1 and UL/CSA62368-1 2nd Ed.

Insulation safety rating	Input / Output	Reinforce
	Input / Case	Basic
	Output / Case	Functional
Hi-pot strength	Input / Output	1500 Vac/1min leakage current< 10mA
	Input / Case	1500 Vac/1min leakage current< 10mA
Touch Current		0.875mA

EMC Requirements

Radiated Emissions CISPR 22/ EN55022/ FCC Part 15	Class A / -6dB
Conducted Emissions CISPR 22/ EN55022/ FCC Part 15	Class A / -6dB
EN61000-3-2 Harmonics (AC Rated Input Current <=16A per phase)	Class A
EN61000-3-3 Voltage Fluctuations and Flicker (AC Rated Input Current <=16A per phase)	Pst<=1.0 & Plt <= 0.65, dc<=3.3%,dmax<=4%, time <=500ms when d(t)>3.3%
IEC61000-4-2 ESD	±8kV Contact, ±15kV Air
IEC61000-4-3 Radiated Immunity	Performance Criteria A required
IEC61000-4-4 EFT (5kHz and 100kHz repetition rates)	0.5kV, Performance Criteria A required
IEC61000-4-5 Surge (For NEBS requirement)	±2.0 kV CM/2ohm, ±2.0 kV DM/2ohm, Criteria A
IEC61000-4-6 Conducted Immunity	Performance Criteria A required.
IEC61000-4-11 Voltage dips, short interruptions and voltage variations immunity tests	Requirements for Voltage Dips and Short Interruptions as specified in EN55024, CISPR 24, EN300386, and EN61000-6-1.

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Dimension:

