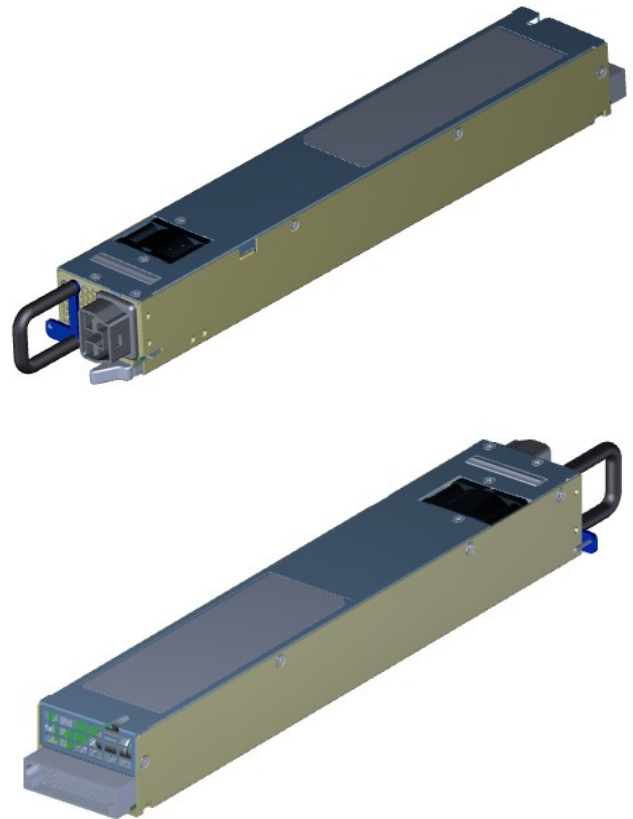


LITEON Server Power Supply 2000W, 54.5mm

Features:

- 80 PLUS® Titanium
- Holdup Time: $\geq 10\text{ms}$
- AC Input Range 100Vac ~ 240Vac
- Output Voltage 12 Vdc + 3.3 VSB
- N+1 Redundant power supply with Hot plug, current sharing & remote sensing
- Self-cooling with fan speed control / Single Bi-color LED indicators(Blue / Amber)
- PMBus Compliant 1.2
- Protection include OCP, OVP, UVP, OTP and Brownout
- 2000W is in 54.5mm (W) x40.6mm (H) x 321.5mm (L)
- Altitude: 3,000 meters
- Operating Temperature: $-5^{\circ}\text{C} \sim 45^{\circ}\text{C}$
- 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 200Vac ~ 240Vac $\pm 10\%$ AC input 100Vac ~ 120Vac $\pm 10\%$	Main Output Voltage (12VDC)	12.0Vdc $\pm 5\%$
		SB Output Voltage (SB)	3.3Vdc $\pm 5\%$
iTHD	100% Load < 5% 50% load < 10% 20% load < 10%	12VDC Current Rating	166.67A @ 200Vac~240Vac 83.33A @ 100Vac~120Vac
Power Factor (PF)	> 0.98 @ 50% load above /208Vac ~ 240Vac	Capacitive Load	2,200uF ~ 30,000uF
		SB Current Rating	3A
Efficiency	96% Peak, 80 PLUS® Titanium	Power R3CVBNM,ating	2000W @ 200Vac~240Vac 1000W @ 100Vac~120Vac
Redundant	N+1 Redundant	Hold Up Time	10mS

LITEON Server Power Supply 2000W, 54.5mm

PROTECTION			
Parameter	Description	Parameter	Description
12VDC OCP @ High Line	Current is above 208A for 350ms (Latch mode)	SB OCP	Current is above 3.5A to 4.5A (Latch mode)
12VDC OCP @ Low Line	Current is above 104A for 350ms (Latch mode)	SB OVP	Voltage is above 3.8V~4.2V (Latch mode)
12VDC OVP	Voltage is above 13.2V~13.9V (Latch Mode)		
12VDC UVP	Voltage is below 11V ~ 10V (Latch Mode)	Over Temperature	Ambient Temperature (Auto recovery mode)
Input Brownout	Voltage is below 80Vac (Auto recovery mode)	Input OVP	Voltage is above 310Vac (Auto recovery mode)
High Line Mode to Low Line Mode	Voltage is below 165Vac for 11s, or Voltage is below 150Vac for 650ms. (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 400KHz
		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 1 (AC Input use)	Blue Flashing --> Standby mode
ACOK_H	Output signal ACOK_H = High to indicate Input existence		Blue Solid --> 12VDC active mode
			Amber Flashing --> Warning event
			Amber Solid --> Fault protection
			Blue and Amber alternating --> FW update
		ASP	Resistor to set PSU address (Support 4 units address)

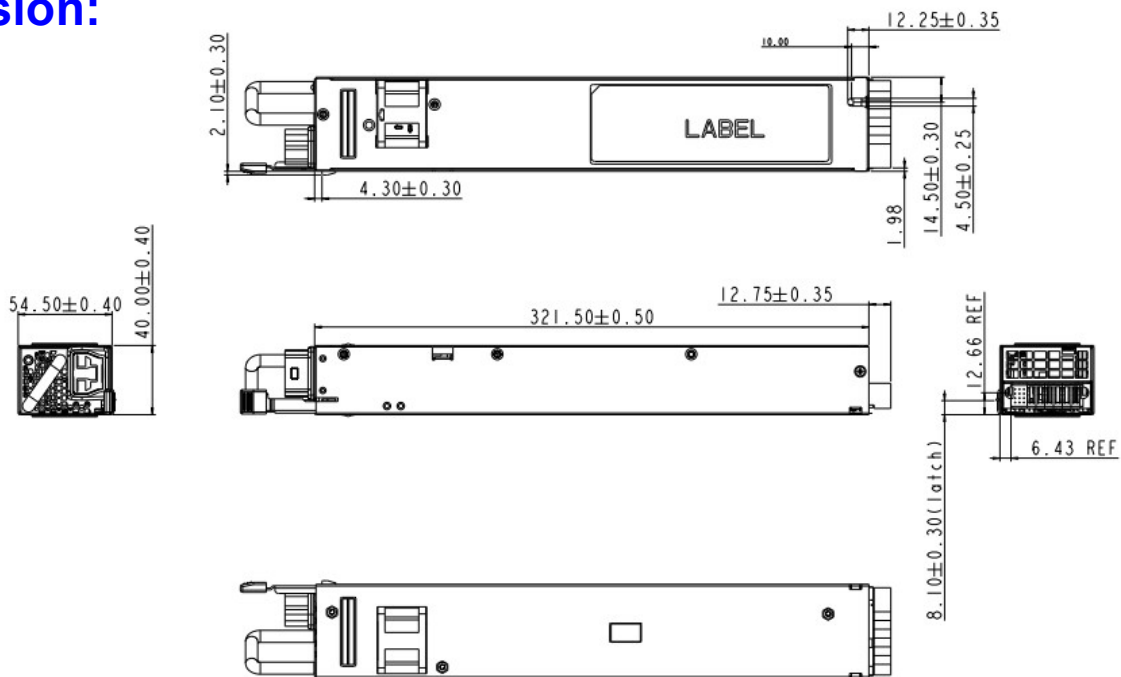
LITEON Server Power Supply 2000W, 54.5mm

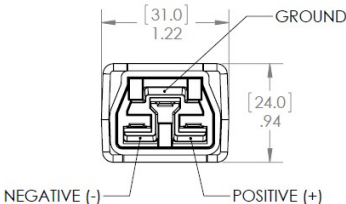
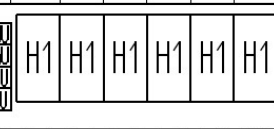
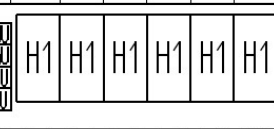
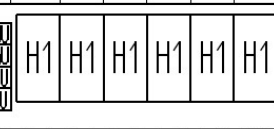
ENVIRONMENT / RELIABILITY			
Parameter	Description	Parameter	Description
Operation Temp.	-5°C ~ 45°C	MTBF	300K hours at rated load, 45°C amb. temp.
Operating Humidity	5% ~ 90%	ECAP Life	5 years at rated load, 40°C amb. temp.
Storage Temp.	-40°C ~ 85°C	Air Flow	Normal Mode, From DC to AC
Storage Humidity	5% ~ 95%	Fan Life	70k hours at 80% load, 40°C amb. temp.
Operating Altitude	3000 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	4242 Vdc/1min
	Input / Case	2850 Vdc/1min
Touch Current	1.75mA	
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)	--	
IEC61000-4-2 ESD	8kV Contact / 15kV Air	
IEC61000-4-3 Radiated Immunity	80-1000Mhz 3V/m, Criteria A	
IEC61000-4-4 EFT (5kHz and 100kHz repetition rates)	1KV for AC power port, Criteria A.	
EC61000-4-5 Surge (For NEBS requirement)	±2.0 kV CM, ±1.0 kV DM, Criteria A	
IEC61000-4-6 Conducted Immunity	10Vrms, 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.	

LITEON Server Power Supply 2000W, 54.5mm

Dimension:



AC Inlet Socket																																				
Connector Type		2006G3, Anderson Power Products																																		
Drawing																																				
Output Connector and Assignment																																				
Connector Type		10106262-6003A02LF; FCI																																		
Pin No.	Name	PRODUCT NO. 10106262-6003A02LF	ROW S DCBA	<table><tr><td colspan="3">SIGNAL</td><td colspan="6">HIGH POWER</td><td></td></tr><tr><td>E1</td><td>1</td><td>2</td><td>3</td><td>P1</td><td>P2</td><td>P3</td><td>P4</td><td>P5</td><td>P6</td><td>E2</td></tr><tr><td colspan="3"></td><td></td><td colspan="6"></td><td></td></tr></table>	SIGNAL			HIGH POWER							E1	1	2	3	P1	P2	P3	P4	P5	P6	E2											
SIGNAL				HIGH POWER																																
E1	1			2	3	P1	P2	P3	P4	P5	P6	E2																								
																																				
P1~P3	PGND																																			
P4~P6	V1(12VDC)																																			
Signal Pin Details (5X5 Array)																																				
	1	2	3																																	
A	PRESENT_L	V1_SENSE_R	SDA																																	
B	VS(3.3VSB)	V1_SENSE	SCL																																	
C	ACOK_H	PWOK_H	PSON_L																																	
D	ISHARE	APS	SMB_ALERT_L																																	