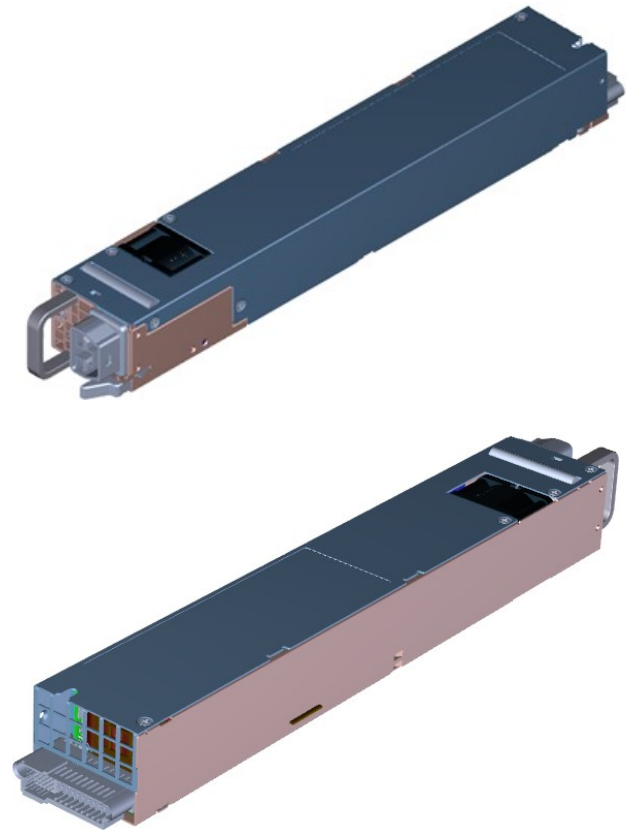


LITEON Server Power Supply 1500W, 54.5mm

Features:

- 80 PLUS® Titanium
- Holdup Time: $\geq 10\text{ms}$
- AC Input Range 100Vac ~ 240Vac & 277Vac
- DC Input Range 192Vdc ~ 400Vdc
- 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 / Two color LED indicators
- PMBus Compliant 1.2
- Protection include OCP, OVP, UVP, OTP and Brownout
- 1500W is in 54.5mm (W) x 40.6mm (H) x 321.5mm (L)
- Altitude: 3,000 meters
- Operating Temperature: $-5^{\circ}\text{C} \sim 45^{\circ}\text{C}$
- Compliance EMC IEC/EN 6100
- 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 & 277Vac $\pm 10\%$ AC input 100Vac ~ 120Vac $\pm 10\%$ DC input 192Vdc ~ 400Vdc	Main Output Voltage(12VDC)	12.0Vdc $\pm 5\%$
		SB Output Voltage (SB)	3.3Vdc $\pm 5\%$
iTHD	50% load < 5%	12VDC Current Rating	125A @ 200Vac~277Vac 70A @ 100Vac~120Vac
Power Factor (PF)	> 0.98 @ 50% load above /208Vac ~ 240Vac	Capacitive Load	2,200uF ~ 30,000uF
		SB Current Rating	2A
Efficiency	96% Peak, 80 PLUS® Titanium	Power Rating	1500W @ 200Vac~277Vac 850W @ 100Vac~120Vac
Redundant	N+1 Redundant, 4pcs maximum	Hold Up Time	10ms @ Full load

LITEON Server Power Supply 1500W, 54.5mm

Protection			
Parameter	Description	Parameter	Description
12VDC OCP @ High Line	Current is above 153A for 5s, or Current is above 178A for 10ms (Latch mode)	SB OCP	Current is above 5.5A (Hiccup mode)
12VDC OCP @ Low Line	Current is above 90A for 1s (Latch mode)	SB OVP	Voltage is above 3.8V~4.2V (Hiccup mode)
12VDC OVP	Voltage is above 13.5V~15V (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 170Vac for 10s, or Voltage is below 158Vac for 500ms. (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)
PSKILL_H	Input signal PSKILL_H = HIGH to disable 12VDC	LED 1 (AC Input use)	Green Flashing --> Standby mode
			Green Solid --> 12VDC active mode
			Amber Solid --> Fault protection
PWOK_H	Output signal PWOK_H = High to indicate the 12VDC existence	LED 2 (DC Input use)	Green Flashing --> Standby mode
			Green Solid --> 12VDC active mode
			Amber Solid --> Fault protection
ACOK_H	Output signal ACOK_H = High to indicate Input existence	ASP	Resistor to set PSU address (Support 4 units address)

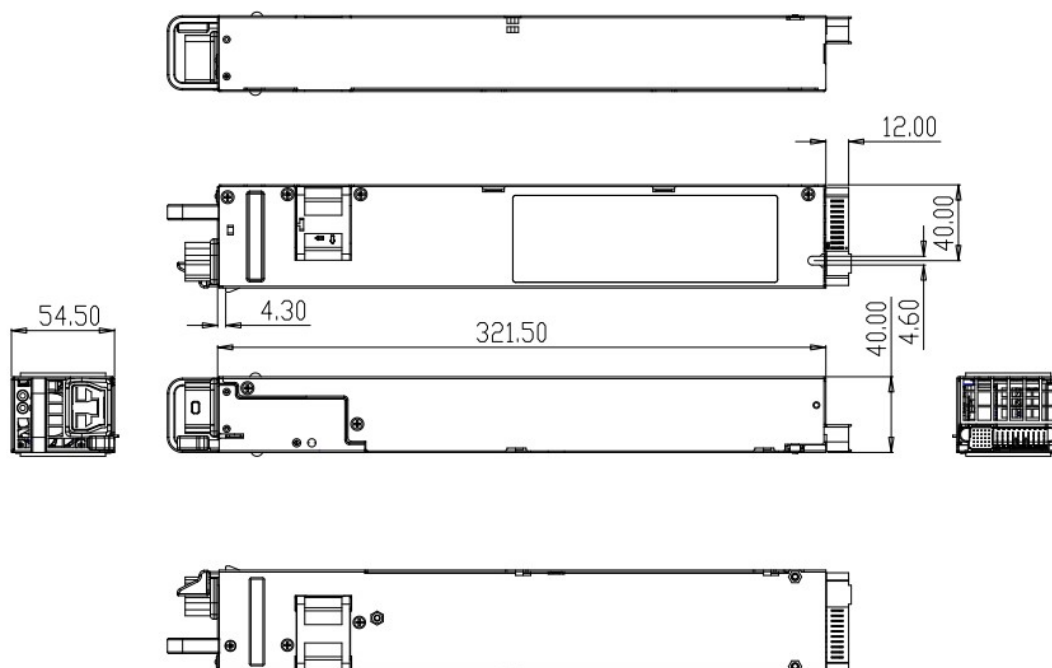
LITEON Server Power Supply 1500W, 54.5mm

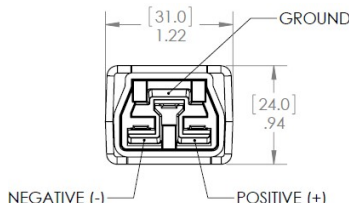
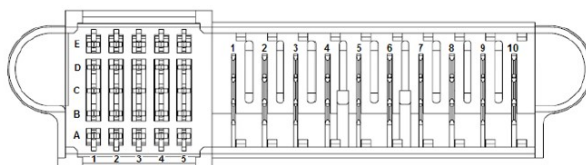
Environment / Reliability			
Parameter	Description	Parameter	Description
Operation Temp.	-5°C ~ 45°C	MTBF	200K hours at rated load, 50°C amb. temp.
Operating Humidity	5% ~ 80%	ECAP Life	5 years at rated load, 50°C amb. temp.
Storage Temp.	-40°C ~ 85°C	Air Flow	Normal Mode, From DC to AC
Storage Humidity	5% ~ 95%	Fan Life	5 years at rated load, 50°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 / -8dB			
Conducted Emissions CISPR 22/ EN55022/ FCC Part 15		Class A / -8dB			
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, ±2.0 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 1500W, 54.5mm

Dimension:



AC Inlet Socket					
Connector Type	2006G3, Anderson Power Products				
Drawing					
Output Connector and Assignment					
Connector Type	10108877-R10253SLF; FCI				
Pin No.	Name				
1~5	PGND				
6~10	V1				
Signal Pin Details (5X5 Array)					
	1	2	3	4	5
A	VSB	SGND	ASP	SCL	PSKILL_H
B	VSB	SGND	N/C	PSON_L	ISHARE
C	VSB	N/C	SDA	ALERT_L	PWOK_H
D	VSB	VSB_SENSE_R	V1_SENSE_R	N/C	N/C
E	VSB	VSB_SENSE	V1_SENSE	ACOK_H	PRESENT_L