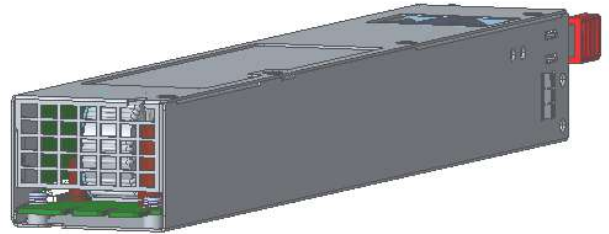
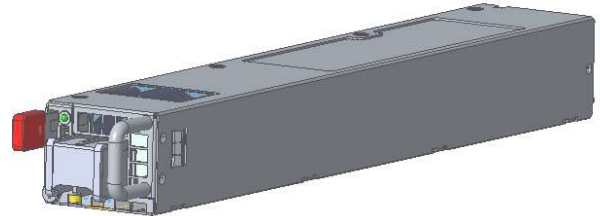


LITEON Server Power Supply 1300W, 50.5mm

Features:

- 80 PLUS® Platinum
- Holdup Time: 1mS
- DC Input Range: -40Vdc ~ -75Vdc
- Output Voltage 12 Vdc, + 5 VSB
- N+N (max.=4) Redundant power supply with Hot plug, current sharing & remote sensing
- Self-cooling with fan speed control / One Bi-color LED indicators
- PMBus Compliant 1.2
- Protection include OCP, OVP, UVP, OTP and Brownout
- 1300W is in 50.5mm (W) x40mm (H) x 321mm (L)
- Altitude: 5,000 meters
- Operating Temperature: -5°C ~ 50°C
- Compliance EMC IEC/EN 61000
- EMI Class A, -10dB margin
- Safety Certificates: IEC/EN 60950-1, IEC/EN62368-1 and UL/CSA62368-1 2nd Ed



Electrical Specifications:

Parameter	Description	Parameter	Description
Input voltage	DC input -40Vdc ~ -75Vdc	Main Output Voltage(12VDC)	12.0Vdc $\pm$ 5%
		SB Output Voltage (SB)	5.0Vdc $\pm$ 5%
iTHD	NA	12VDC Current Rating	108A @ -40Vdc ~ -75Vdc
Power Factor (PF)	NA	Capacitive Load	15,000uF
		SB Current Rating	3A
Efficiency	94% @ 50% load	Power Rating	1300W @ -40Vdc ~ -75Vdc
Redundant	N+N Redundant, 4pcs maximum	Hold Up Time	1ms @ Full load

LITEON Server Power Supply 1300W, 50.5mm

Protection			
Parameter	Description	Parameter	Description
12VDC OCP @ High Line	Current is above 140A for 10s, or Current is above 157A for 20ms (Latch mode)	SB OCP	Current is above 5.1A (Hiccup mode)
12VDC OCP @ Low Line	NA	SB OVP	Voltage is above 6.0V~7.2V (Hiccup mode)
12VDC OVP	Voltage is above 13.3V~15.6V (Latch Mode)		
12VDC UVP	Voltage is below 10.0V ~ 11.0V (Latch Mode)	Over Temperature	Ambient Temperature (Auto recovery mode)
Input Brownout	Voltage is below 36Vdc (Auto recovery mode)	Input OVP	Voltage is above 85Vdc (Auto recovery mode)
High Line Mode to Low Line Mode	NA		

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	Green Flashing --> Standby mode
			Green Solid --> 12VDC active mode
			Red Solid --> Fault protection Red Flashing -> warning event.
PWOK_H	Output signal PWOK_H = High to indicate the 12VDC existence	PDB_ALERT	Input signal PDB_ALERT = HIGH: fan follows PSU control. PDB_ALERT = LOW: fan works at maximum speed.
ACOK_H	Output signal ACOK_H = High to indicate Input existence	PDB_FAULT	Input signal PDB_FAULT = HIGH to disable 12VDC

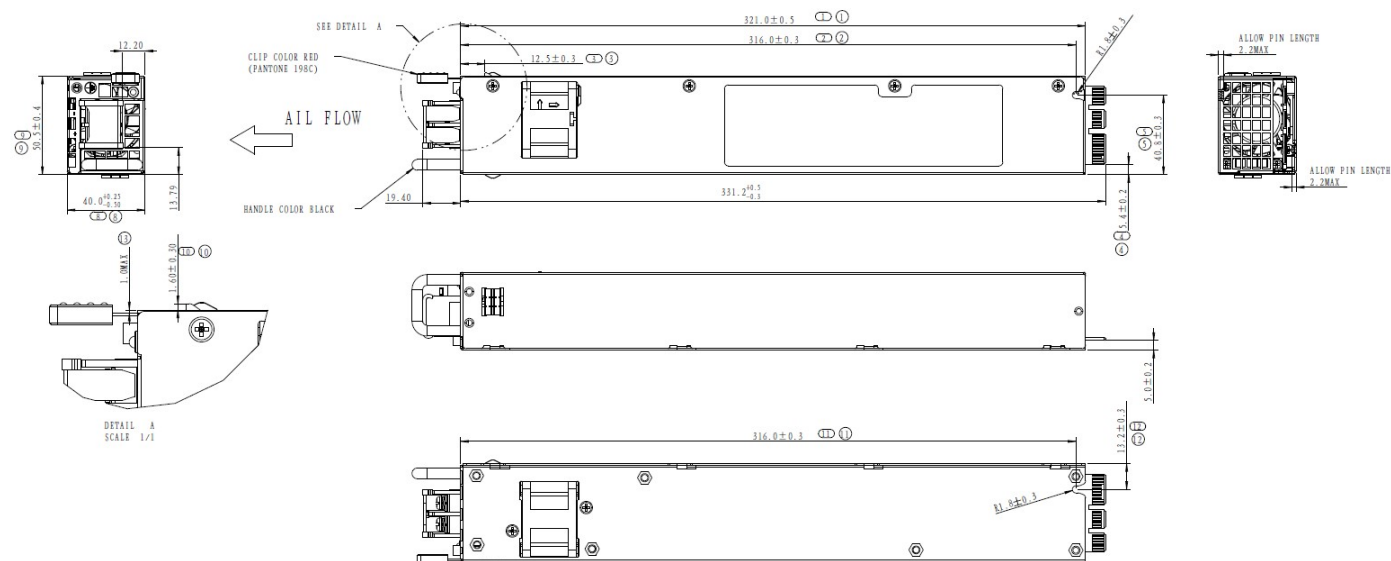
LITEON Server Power Supply 1300W, 50.5mm

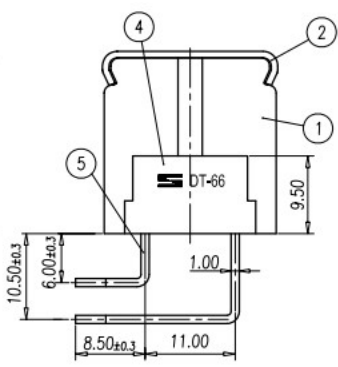
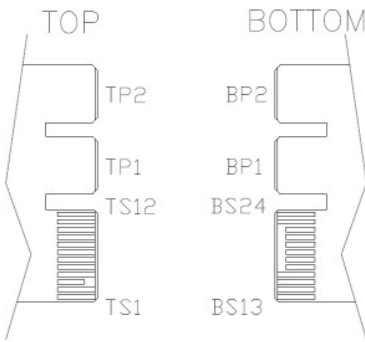
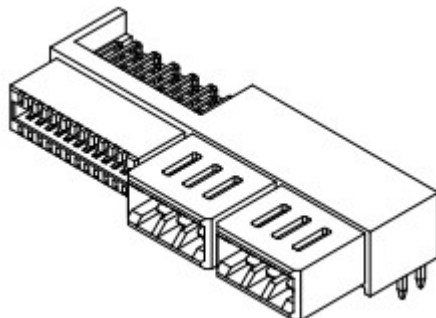
Environment / Reliability			
Parameter	Description	Parameter	Description
Operation Temp.	-5°C ~ 50°C	MTBF	200K hours at rated load, 50°C amb. temp.
Operating Humidity	5% ~ 90%	ECAP Life	5 years at rated load, 50°C amb. temp.
Storage Temp.	-40°C ~ 70°C	Air Flow	Normal Mode, (Reverse mode: Reservation)
Storage Humidity	5% ~ 95%	Fan Life	5 years at rated load, 50°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 Vdc/1min			
	Input / Case	1500 Vdc/1min			
Touch Current	NA				
EMC Requirements					
Radiated Emissions CISPR 22/ EN55022/ FCC Part 15	Class A / -10dB				
Conducted Emissions CISPR 22/ EN55022/ FCC Part 15	Class A / -10dB				
EN61000-3-2 Harmonics (AC Rated Input Current <=16A per phase)	NA				
EN61000-3-3 Voltage Fluctuations and Flicker (AC Rated Input Current <=16A per phase)	NA				
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, Criteria A.				
EC61000-4-5 Surge (For NEBS requirement)	±1.0 kV CM, ±1.0 kV DM, Criteria A				
IEC61000-4-6 Conducted Immunity	150KHz-80MHz, 3Vrms, Performance Criteria A required				
IEC61000-4-11 Voltage dips, short interruptions and voltage variations immunity tests	NA				

LITEON Server Power Supply 1300W, 50.5mm

Dimension:



DC Inlet Socket			
Connector Type	DINKLE, DT-66-C11W		
Drawing			
Output Connector and Assignment			
Connector Type	OUP1IN (9392-C4S24P04N12CB30DA)		
Drawing	 		
Pin Definition			
PIN	Name	PIN	Name
TP2	GND	BP2	+12V
TP1	GND	BP1	+12V
TS12	5V STBY	BS24	5V STBY



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TS11	5V STBY	BS23	5V STBY	
TS10	Reserved	BS22	A1 (SMBus address)	
TS9	Reserved	BS21	PW_OK	
TS8	Reserved	BS20	PS_ON	
TS7	Reserved	BS19	PS_KILL	
TS6	Reserved	BS18	PMBus SCL	
TS5	INPUT_OK	BS17	PMBus SDA	
TS4	PDB_ALERT	BS16	SMBus_ALERT	
TS3	A0 (SMBus address)	BS15	ISHARE	
TS2	PRESENT	BS14	M_SENSE_RTN	
TS1	PDB_FAULT	BS13	MAIN_SENSE	