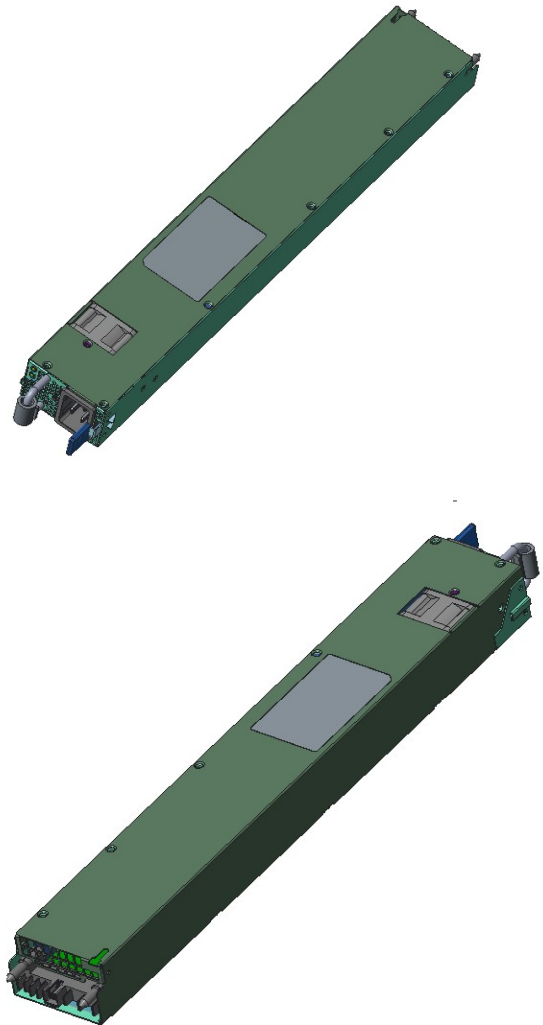


LITEON GPU Power Supply 3000W

Features:

- 80 PLUS® Titanium
- Holdup Time: 20ms
- AC Input Range 180Vac ~ 264Vac
- N+M (≤ 6) 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
- Power Density: 40.56 W/inch³
- 3000W is in 439mm (L) x 68mm (W) x 40.6mm (H)
- Altitude: 5,000 meters
- Operating Temperature: 0°C ~ 45°C
- Compliance EMC IEC/EN 6100
- EMI Class A, -6dB margin
- Safety Certificates: IEC/EN 60950-1, IEC/EN62368-1 and UL/ CNS14336-1, CNS13438



Electrical Specifications:

Parameter	Description	Parameter	Description
Input Voltage	AC input 180Vac ~ 264Vac	Main Output Voltage(54VDC)	54Vdc ± 3%
		SB Output Voltage(SB)	12Vdc ± 3%
iTHD	50% load < 8%	54VDC Current Rating	55.6A @ 208Vac~264Vac 53.4A @ 200Vac~207Vac 48.04A @ 180Vac~199Vac
Power Factor (PF)	> 0.98 @ 50%load	Capacitive Load	0 ~ 10,000uF+2000uF (MLCC)
		SB Current Rating	3A
Efficiency	96% Peak, 80 PLUS® Titanium	Power Rating	3000W@208Vac~ 264Vac 2883W@200Vac~ 207Vac 2594W @180Vac~ 199Vac
Redundant	N+N Redundant, 6pcs maximum	Hold Up Time	20ms

LITEON GPU Power Supply 3000W

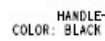
Protection			
Parameter	Description	Parameter	Description
54VDC OCP	Current is above 75A for 10s, or Current is above 80.6A for 50ms, or Current is above 86.1A for 20ms (Latch mode)	SB OCP	Current is above 3.5A~4.5A (Hiccup mode)
		SB OVP	Voltage is above 13.5V~15V (shut down in a retry hiccup mode)
54VDC OVP	Voltage is above 58V~59.5V (Latch Mode)	Over Temperature	AMB: 65 ; SEC: 90 ; PRI: 95 (Auto recovery mode)
54VDC UVP	Voltage is below 44V (Latch Mode)	Input OVP	Voltage is above 316Vac (Auto recovery mode)
Input Brownout	Voltage is 165~173Vac (Auto recovery mode)		

Control Signal / Indicate Signal / LED			
Parameter	Description	Parameter	Description
PSON_N	Input signal PSON_N = LOW to turn on 54VDC	PMBus	Version 1.2 I2C interface with 100KHz
PWOK_N	Output signal PWOK_N = Low to indicate the 54VDC existence	SMALT_N	Output signal SMALT_N = LOW to indicate WARNING event (Event Programmable)
ACOK_N	Output signal ACOK_N = Low to indicate Input existence	LED 1	Solid Green --> AC Input within range
		(AC Input use)	OFF --> Input out of range or absent/ Firmware Update
A0/A1/A2	set PSU address (Support 6 units address)	LED 2	Solid Green --> 54V Output is OK
		(DC Input use)	Solid Amber --> PSU Fault, V1 or Vsb Fault OTP/ OVP/ UVP/ OCP
			Amber, 1Hz Blinking --> 54V OFF, In Standby Mode

LITEON GPU Power Supply 3000W

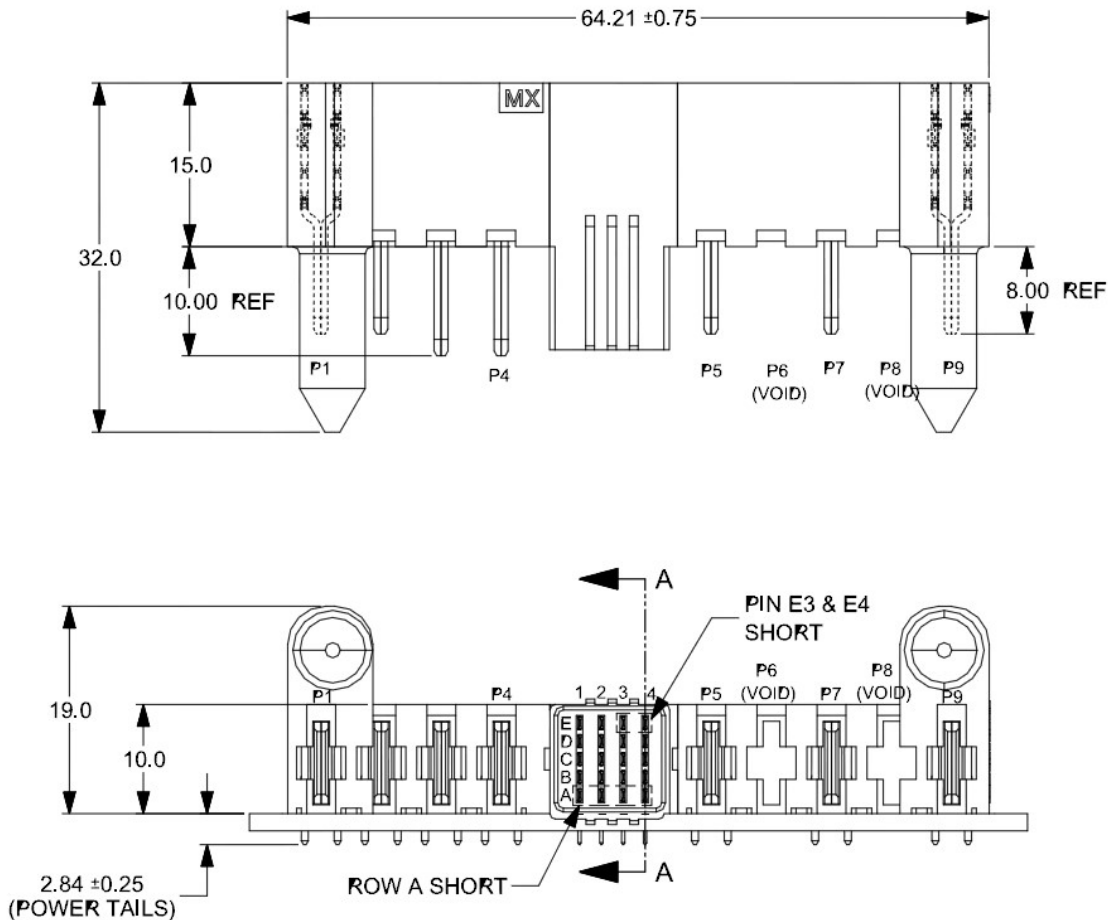
Environment / Reliability			
Parameter	Description	Parameter	Description
Operation Temp.	0°C ~ 45°C	MTBF	300K hours at rated load, 45°C amb. temp.
Operating Humidity	5% ~ 90%	ECAP Life	10 years at 80% rated load, 45°C amb. temp.
Storage Temp.	-40°C ~ 85°C	Air Flow	Normal Mode, From DC to AC
Storage Humidity	5% ~ 95%	Fan Life	L10 lifetime of 70,000h ,45°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	4242Vdc/ 3000Vac 1min
	Input / Case	2121Vdc/ 1500Vac 1min
Leakage Current	3.5mA	
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	10V/m, Performance Criteria A required.	
IEC61000-4-4 EFT (5kHz and 100kHz repetition rates)	0.5kV, Performance Criteria A required. 2kV, Performance Criteria B required.	
EC61000-4-5 Surge (For NEBS requirement)	±2.0 kV CM, ±2.0 kV DM	
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.	



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LITEON GPU Power Supply 3000W



OUTPUT PIN DESCRIPTION[↵]
Molex P/N=464372435[↵]

P1 [↵]	P2 [↵]	P3 [↵]	P4 [↵]	Signal Pins [↵] P5 [↵]	P6 [↵]	P7 [↵]	P8 [↵]	P9 [↵]
+54VDC [↵]	+54VDC [↵]	+54VDC _RTN [↵]	+54VDC _RTN [↵]	4x5 array [↵] [↵]	Not Used [↵]	Not Used [↵]	Not Used [↵]	Not Used [↵]

Signal Pin Details (4X5 Array): [↵]					
1 [↵]	2 [↵]	3 [↵]	4 [↵]	[↵]	Short Pins _Nocation [↵]
+12VSB_RTN [↵]	+12VSB_RTN [↵]	+12VSB [↵]	+12VSB [↵]	E [↵]	+12VSB_3E, +12VSB_4E, [↵] PSKILL_N_1A [↵] PRST_N_2E [↵] SCL_3A [↵] SDA_4A [↵]
PWOK_N [↵]	A0 [↵]	ISHARE [↵]	ISHARE_RTN [↵]	D [↵]	
ACOK_N [↵]	A1 [↵]	SMALT_N [↵]	EE_WP [↵]	C [↵]	
PSON_N [↵]	A2 [↵]	<u>Logic RTN</u> [↵]	Optional [↵]	B [↵]	
PSKILL_N [↵]	PRST_N [↵]	SCL [↵]	SDA [↵]	A [↵]	