

The 2.5KW Dual input Power Supply Unit (PSU) efficiently supplies both main output DC power and standby DC power from either AC or DC sources. This compact PSU provides 2.5kW, 12.5V / 200A for main power output and 30W, 12V / 2.5A for standby power applications. In addition, this PSU supports PMBUS1.2 with boot loader, LED status indicators, and circuit protection features.

Key Features

- Dual-input connection with AC (180-264VRMS) or DC (190-300VDC) for each input source
- Built-in transfer switch capability
- 2.5kW, 12.5V / 200A main output power
- 30W, 12V / 2.5A standby output power
- Single-phase AC input and DC input
- Interleaved Power Factor Correction (PFC) technique
- Platinum-rated efficiency
- Parallel redundancy
- 8 sets of unique PSU addresses
- PMBUS1.2 communication protocol



Specifications

Electrical	
Input-1 Voltage, nominal	208VAC, 220VAC, 230VAC, 240VAC or 240VDC
Input-2 Voltage, nominal	208VAC, 220VAC, 230VAC, 240VAC or 240VDC
Input Frequency	50/60 Hz, auto sensing
Input Power Factor at Full Load	> 0.98
Input Current THD at Full Load	< 5%
Output Power, maximum	2.5kW (Main), 30W (Standby)
Output Voltage, nominal	12.5VDC (Main), 12VDC (Standby)
Output Current, maximum	200A (Main), 2.5A (Standby)
Output Efficiency AC Mode	> 94% at 50% load
Communication Ports	PMBUS
Communication Protocol	PMBUS1.2

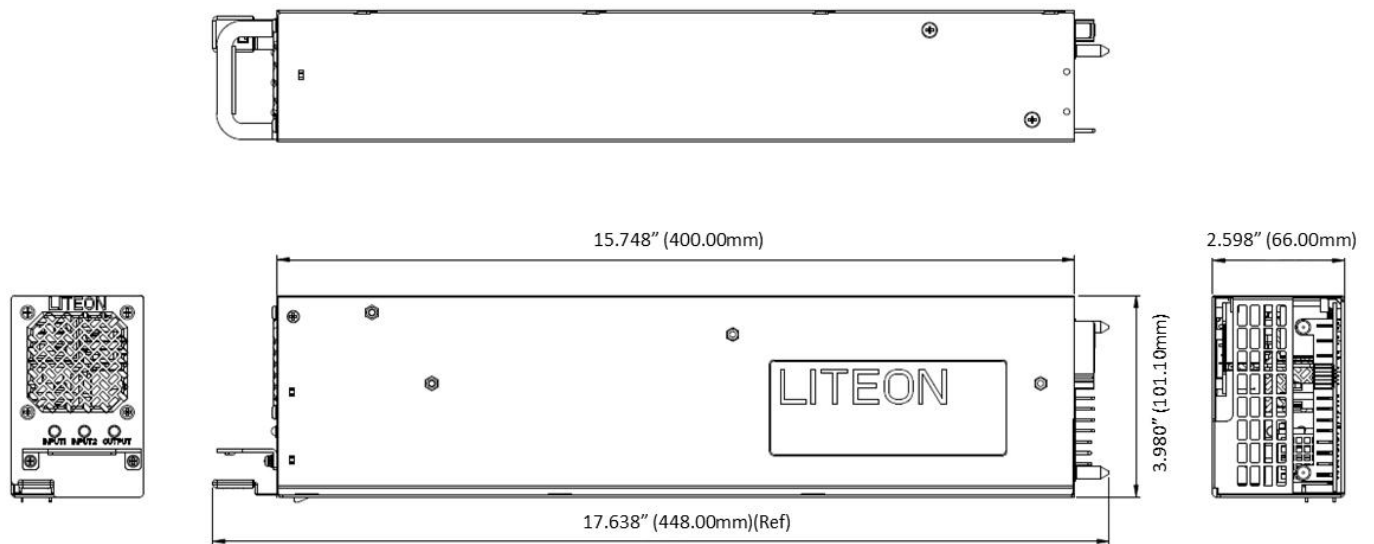
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Specifications

Physical	
Dimensions	3.98" x 15.74" x 2.59" (101.1 mm x 400.0 mm x 66.0 mm)
Weight	6.6 lbs (3.0 kg)
Environmental	
Temperature	Operating: 0°C – 50°C, Storage: -20°C – 70°C
Humidity	0% – 90% relative (non-condensing)
Altitude	Operating: 0 m – 3000 m, Storage: 0 m – 15000 m
Acoustic	70dB at 1 m
EMI	CISPR 22 Class A -4dB
General	
Approvals	UL60950-1, IEC60950-1 International, GB4943, RoHS
Warranty	2 years

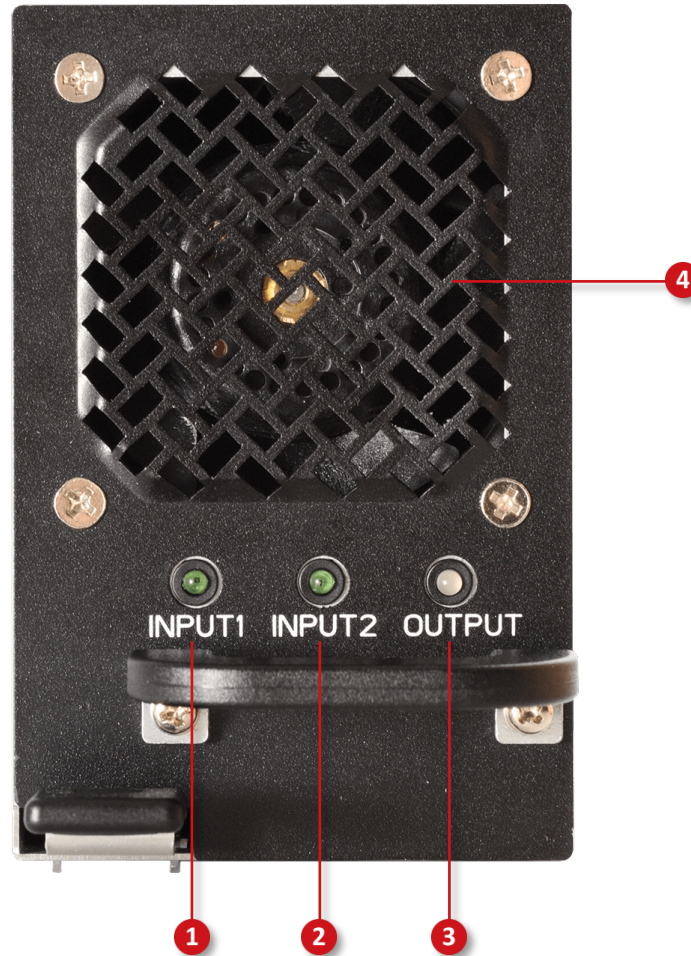
Mechanical



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Front Panel

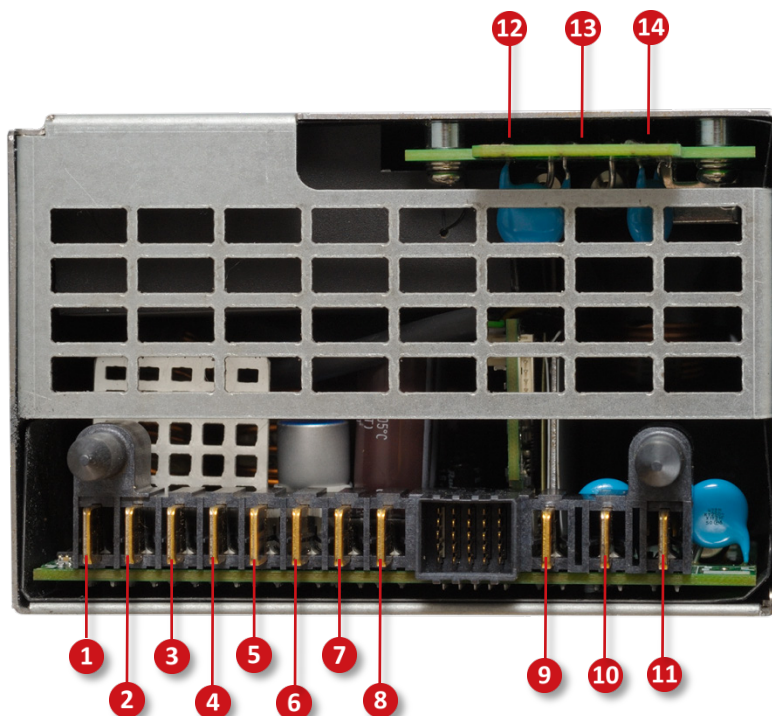


1	LED 1 indicator	Input-1 power LED indicator
2	LED 2 indicator	Input-2 power LED indicator
3	LED 3 indicator	Output power LED indicator
4	Fan	Cooling fan

Front Panel LED Status

Status	LED 1 (Input-1) Green Color	LED 2 (Input-2) Green Color	LED 3 (Output) Bicolor
AC_LOSS	Off	Off	Off
Vin_OV_Fault	Off	Off	Off
Vin_UV_Fault	Off	Off	Off
Vin_AC_Normal	Solid Green	Solid Green	Solid Green
Vout_OV_Warning	Solid Green	Solid Green	Blink Green
Vout_UV_Warning	Solid Green	Solid Green	Blink Green
Iout_OC_Warning	Solid Green	Solid Green	Blink Green
OT1_Warning	Solid Green	Solid Green	Blink Green
OT2_Warning	Solid Green	Solid Green	Blink Green
OT3_Warning	Solid Green	Solid Green	Blink Green
PSON	Solid Green	Solid Green	Blink Yellow
FAN_LOCK	Solid Green	Solid Green	Solid Yellow
Vout_OV_Fault	Solid Green	Solid Green	Solid Yellow
Iout_OC_Fault	Solid Green	Solid Green	Solid Yellow
OTP_Fault	Solid Green	Solid Green	Solid Yellow
Vout_UV_Fault	Solid Green	Solid Green	Solid Yellow
LATCH_SD	Solid Green	Solid Green	Solid Yellow
SCP_Fault	Solid Green	Solid Green	Solid Yellow
STB_UV_Fault	Solid Green	Solid Green	Solid Yellow
STB_OV_Fault	Solid Green	Solid Green	Solid Yellow
STB_OCP_Fault	Solid Green	Solid Green	Solid Yellow
STB_OTP_Fault	Solid Green	Solid Green	Solid Yellow

Rear Panel



1	+12.5V Output	Positive output voltage
2	+12.5V Output	Positive output voltage
3	+12.5V Output	Positive output voltage
4	+12.5V Output	Positive output voltage
5	GND	Negative output voltage
6	GND	Negative output voltage
7	GND	Negative output voltage
8	GND	Negative output voltage
9	FG	Frame GND
10	Input-1 voltage Neutral	AC-1 input voltage
11	Input-1 voltage Line	AC-1 input voltage
12	FG	Frame GND
13	Input-2 voltage Neutral	AC-2 input voltage
14	Input-2 voltage Line	AC-2 input voltage

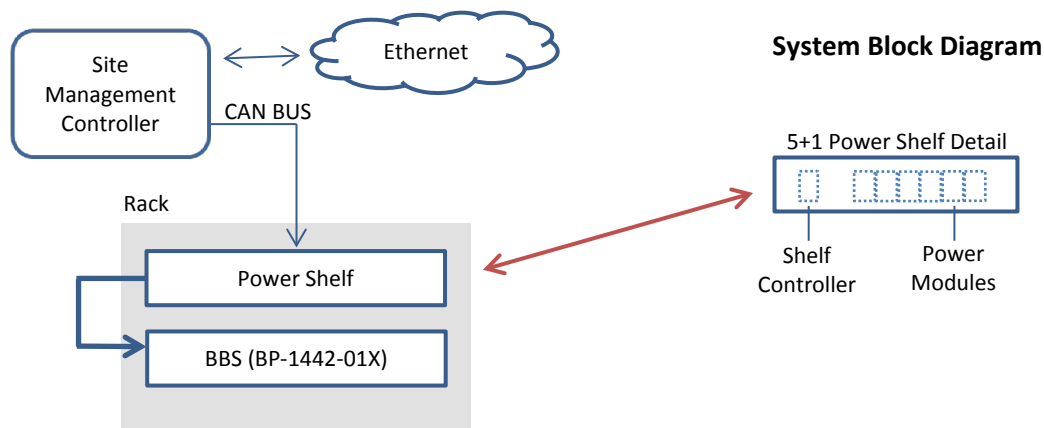
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System Components

The system provides a comprehensive power management and battery backup capability based on existing building block with configuration flexibility to suit specific power, size, and run-time requirements. The table below provides additional information on the building block available to create a customized power solution. Please visit our website for more in-depth information or contact your local Lite-On PSS representative for support.

Component	Model Number	Description
Power Shelf	PF-2123-1LDM	12.5KW (5+1), 3 Phase, 5-wire connection, 2.5U Power Shelf with 6 pcs power module slots and one Shelf Controller slot
Power Shelf	PF-2123-1LDN	12.5KW (5+1), 3 Phase, 4-wire connection, 2.5U Power Shelf with 6 pcs power module slots and one Shelf Controller slot
Power Module	PS-2252-1QDU	2.5kW Hot-Swappable Power Module
Battery Backup System	BP-1442-01X	4.4KW 1U Battery Backup System (BBS) with 4 slots
Battery Backup Unit	BM-1112-01X	1.1kW Battery Backup Unit
Shelf Controller	CM-12CP-010U	Power shelf management and control
Site Management Controller	CP-13EC-010U	Rack management and control
21" OCP Rack	KT-2141-121	21-inch Open Frame Rack



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