

The 600W Power Supply Unit (PSU) efficiently provides DC power for industrial applications. Main outputs are 12V/50A and 24V/25A DC. The PSUs are also equipped with PMBus 1.2, LED indicator and protection features.

- 600W power supply with PMBus®
- Universal AC input with up to 0.99 high power factor
- Up to 96.0% efficiency
- Adjustable output voltage
- Active current sharing up to four PSUs
- Remote ON/OFF and Remote Sensing
- Full power management capability with PMBus®
- Quiet operation with smart fan speed control
- ITE and industrial applications \*1



Specifications		PS-1601-1LA (12V - Enclosed)	PS-1601-9LB (24V - Enclosed)
Nominal output voltage		12 V	24 V
Output adjustment range		11.7 V ~ 12.9 V	23.4 V ~ 25.9 V
Output current (max)	Forced air	50 A	25 A
Output power (max)		600 W	600 W (750 W) *2
Ripple & Noise (peak to peak) at 25°C (max)		240 mV	400 mV
Efficiency at 50% load (typ)	115Vac / 230Vac	93% / 95%	94% / 96%
Voltage Regulation (max)		± 1 %	
Hold-up time		> 14ms 600 W load	

AC Input	
Input voltage range	85Vac to 265Vac *3
Frequency	47Hz to 63Hz
Power Factor at 100% load	0.99 / 0.96 at 115Vac / 230Vac
Input Current	< 6A at 115Vac / < 3A at 230Vac
Inrush Current at cold start	< 50A
No Load Power	1.5W (typ) at 230Vac *4
Leakage current	< 300µA at 265Vac 60Hz
Touch Current	< 100µA

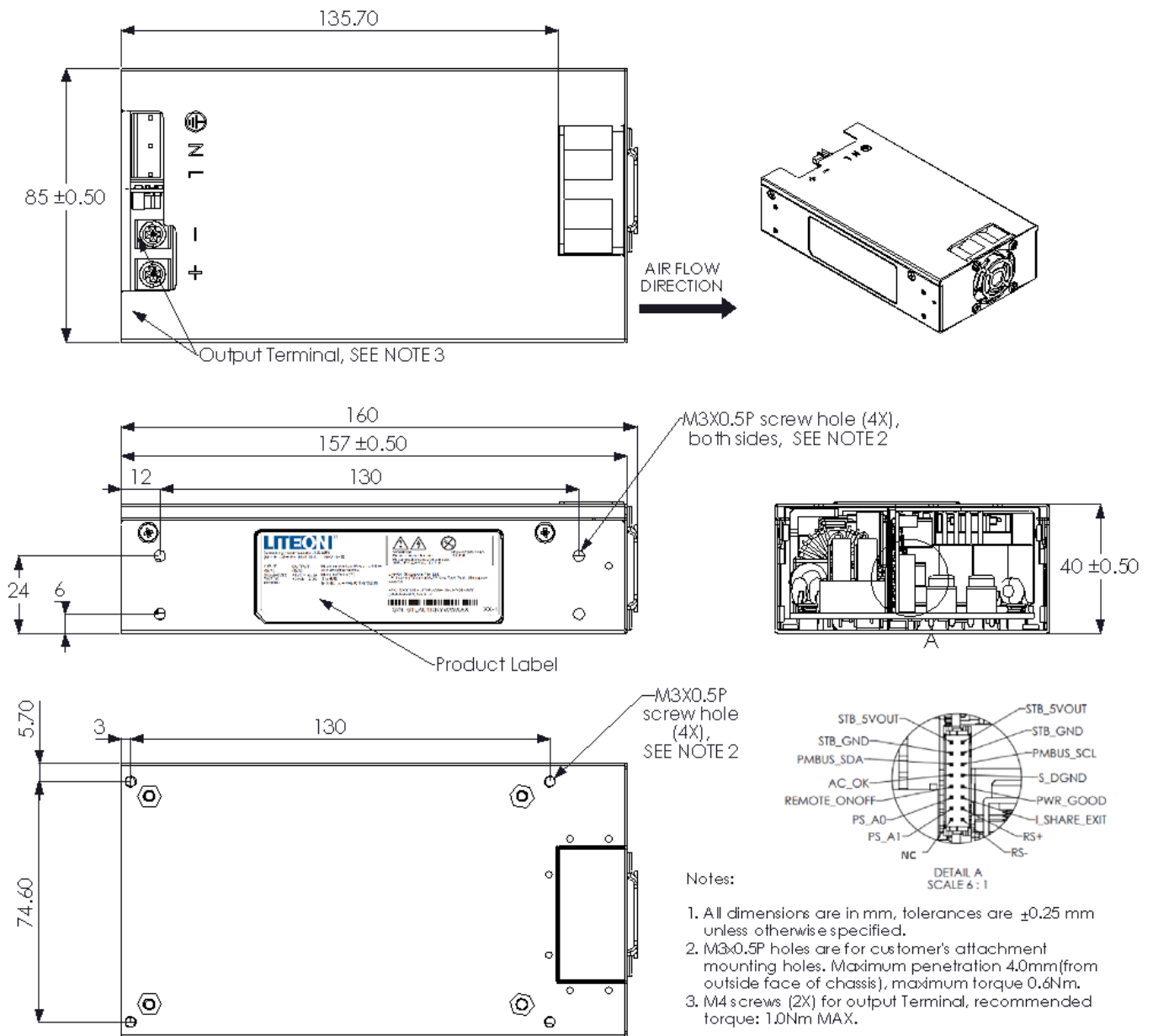
Protections & other features	
• Short circuit protection	• Remote ON/OFF input
• Over current protection	• Power Good / AC OK signals
• Over voltage protection	• Active current sharing till 2160W
• Over temperature	• PMBus®
• Remote Sense	• Standby supply : 5V / 2A

General	
Safety Certifications	• IEC/UL 62368-1, 60950-1 • Designed to meet IEC/UL 60601-1
Regulatory Marks	cUL, CE, TUV, CCC
Dimension (W x L x H)	85mm x 157mm x 40mm (enclosed)
Warranty	Kindy inquire to LITEON sales.

Environmental	
Operating Temperature	-20°C to +60°C *5
Storage Temperature	-40°C to +85°C
Cooling	Internal Fan
Altitude	5000m max
Humidity (operating)	(non-condensing): 5% to 95% RH
Vibration (non-operating)	Maximum 19.6m/s <sup>2</sup>
Mechanical Shock	< 196 m/s <sup>2</sup>
Withstand Voltage (For 1 minute)	Input to Output: 3kVac, Input to Earth: 1.5kVac, Output to Earth: 1.5kVac

EMC		
Conducted	EN 55011/EN 55032	Class B
Radiated Emission	EN 55011/EN 55032	Class B
Harmonic Current	EN 61000-3-2	Class A
Electrostatic Discharge	EN 61000-4-2	Level 4
RF Electromagnetic Field	EN 61000-4-3	Level 3
EFT	EN 61000-4-4	Level 3
Surge	EN 61000-4-5	Level 3
Conducted RF Disturbances	EN 61000-4-6	Level 3
PF Magnetic Field	EN 61000-4-8	Level 3
Voltage Dips & Interruptions	EN 61000-4-11	Class 3

Note : \*1 : Refer to "Safety Certifications". \*2 : Peak current and power possible for 24V model at 170-265VAC input, 10s max, 35% duty cycle; average power not to exceed nominal power rating. \*3 : Refer to "Output derating with input voltage" graph. \*4 : With Remote OFF and no load on 5Vsb. \*5 : Refer to "Output derating with temperature" graph.



- Input connector: Jowle Technology Co., Ltd. A3963WV2-5P-5E-A
- Output connector: Kang Yang Hardware Enterprise Co., Ltd. PCB-7(M4)
- Signal connector: Cvilux Corporation. CI0116P1HD0-LF

**Figure 1 – Dimensions and Connectors of 600W power supplies**

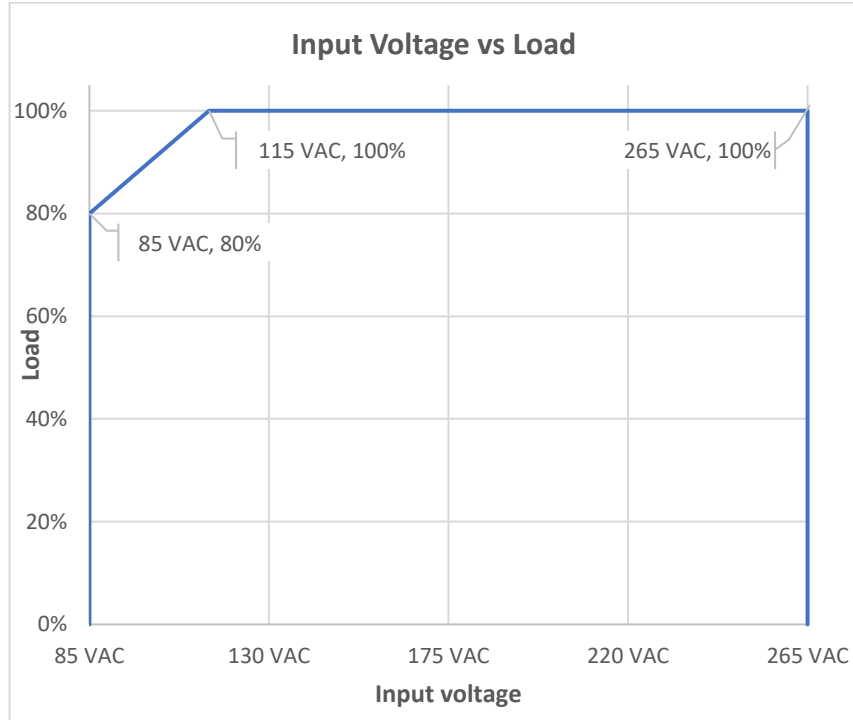


Figure 2 - Output derating with input voltage

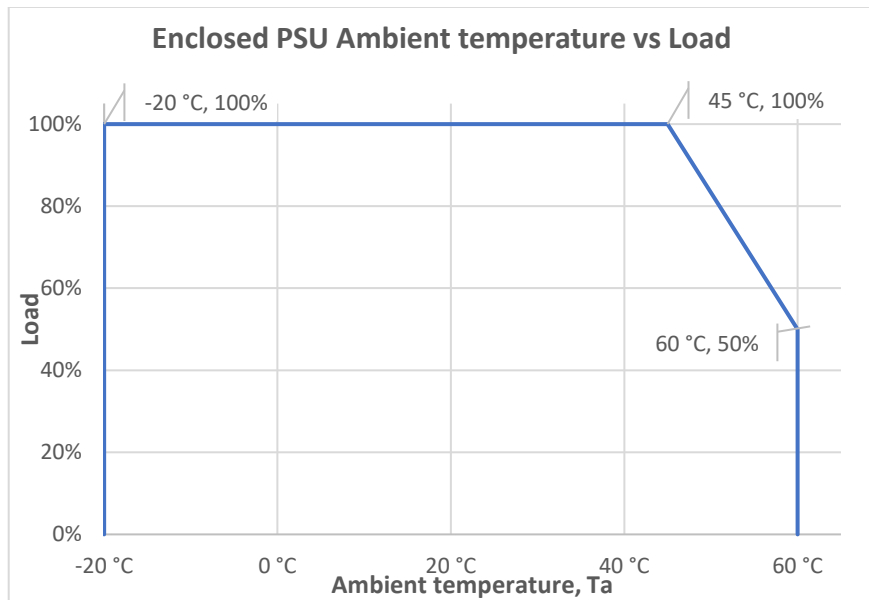


Figure 3 - Output derating with temperature