

# Specificaties LP PC24-60

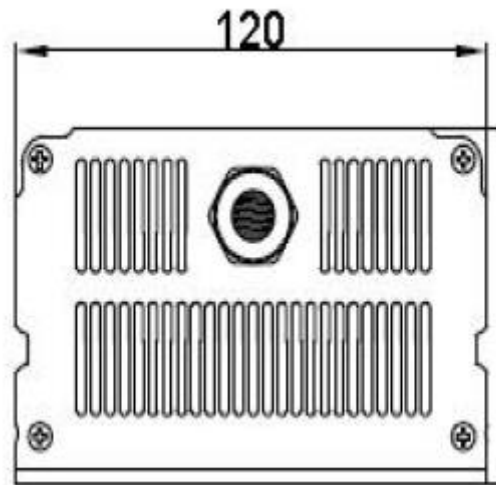
*Lithium acculader*

Model	PC24-60	
Matched Battery Type	Lithium-Ion Battery	
Charging Mode	CC/CV	
Heat Sinking Method	Cool by Fan	
Input	Range of Input Voltage	(200 ~ 240VAC) (180 ~ 264VAC)
	Range of Input Frequency	47-63Hz
	Power Factor	PF>0.95/220VAC
	Efficiency	90% min.@200VAC
	Input AC Current	20A max. @200Vac input & Full load
	Inrush current	60A@Cold Start
Output	Rated Voltage	29.2V
	Rated Current	60A
	Rated Power	1752W
	Voltage Precision	±0.2
	Line Regulation	1%
	Load Regulation	5%
	Dynamic Load	The power supply should keep the output voltage within 5% , when the output current changes from 25% to 70% load and back to 25% load and 0.5A/us slew rate and transient time with 200ms.
	Capacitive Load Test	220VAC, Full load, parallel connected with 2200uF capacitor. One way is that power on and connect the load, and the other way is that connect the load firstly and then power on. The output voltage wave by the two ways must be ascending directly without surge up and down.
	Maximum Current for Fully Charged LED Indicator	≤6A *Rated Current
	Ripple and Noise	≤5% *Rated voltage Ripple & Noise: Measurement is done by 20MHz bandwidth oscilloscope and the output paralleled a 0.1uF ceramic capacitor and a 10uF electrolysis capacitor. (test under the condition of rated input and rated output)
Standby Power	≤6W	

	Turn on Time	5S/220VAC
	Rise Time	< 30ms
	Communication Protocol	/
Protection	Short Circuit/Reverse Battery Polarity	The power / battery is properly connected.
	Over Current /Over Load /Under voltage	After the abnormal conditions are lifted, the normal operation can be resumed.
	Over Voltage	When the output voltage exceeds 1.15 - 1.25 times of the rated voltage, the power supply will be protected and normal operation after abnormal conditions are lifted.
	Over Temperature	When the temperature switch reaches a rated value of 85°C, the output is reduced to half current. It can recover automatically after the temperature drops.
Environment	Operating Temperature	-25°C ~ +40°C
	Operating Humidity	10 ~ 95%RH, no condensation
	Drop Tests	1 Corner, 3 Edges, 6 Surfaces, Height: 100cm, On the cement plane, the plug can be bend, and scratch, but the structure should not be damaged, and can work normally.
	Storage Temperature, Humidity	-40°C~+80°C, 10~95%RH
	Operating Altitude	2000m
	Non-Operating Altitude	10000m
	Operating Vibration	Vibration:1.0G (Amplitude), 5~20~500Hz (Frequency), 30Minutes per cycle for each axis (X,Y,Z).
	Non-Operating Vibration	The power supply shall be designed to withstand normal transportation vibration per MIL-STD-810D, method 514 and procedures X, as it is mounted in the chassis assembly and packed for shipping.
Safety and EMI/EMS Standards	Safety Standards	EN60335, UL62368
	Dielectric Strength(Hi-pot)	Primary to Secondary: 1800Vac 50Hz / 5mAMax / 60second (3second for production) should not be breakdown and flashover.
	Leakage Current	5mA max. at 220Vac / 50Hz

	Insulation Resistance	100M $\Omega$ min. at primary to secondary add 500Vdc test voltage, Relative Humidity 75%.
	Electromagnetic Compatibility(EMC) Standards	FCC Part 15, Class B, EN55032
2-Color LED Indicator for Charging Status	Green LED Blinking Slowly	Idle, Waiting for battery connected to.
	RED LED On	Charging
	GREEN LED On	Fully Charged
	RED LED Fast Blinking	Reverse Battery Polarity or Short Circuit Protection
Reliability and Quality Control	Mean Time Between Failure (MTBF)	200,000 hours, operating at ambient temperature 25°C and rated grid and load
	Operating Life	The Capacitor life shall be at least 2 years at 40°C, 60% load and input voltage 230Vac
	Burn-In	The power supply shall undergo burn-in for 4 hours under normal input 80% rated load at 40°C.
	Case Temperature Rise	$\leq +65^{\circ}\text{C}$
Others	Case Material	Aluminum alloy
	Weight	4.1kg
	Color	Black
	Dimensions	415mm x 120mm x 75mm (L x W x H)
	Package	45 x 20 x 13 cm
Remark	AC DC	

## Outline Dimension Drawing



## Charging Curve

