

# PUPS106 DC UPS



## PUPS106-12, -19, -24 Series Lithium Battery Powered Mini DC UPS

The PUPS series is a desk top DC UPS that is powered by a 12V, 19V or 24V DC input source and gives the corresponding output which is battery backed by internal lithium batteries in the event of an AC mains failure. The charger uses a constant current constant/voltage standby charge battery management system. It can be used with any approved 12V, 19V or 24V AC-DC adaptor which has enough output power to provide the load and charge the internal batteries. The PUPS series UPS simply plugs in between AC-DC adaptor and load. Powersolve are able to supply the appropriate adaptor necessary to supply the complete solution.



Specification			
Model	PUPS106-12	PUPS106-19	PUPS106-24
Input Voltage	11.1-14.5V DC	17-21V DC	22-26V DC
Output Voltage	12V DC (11.4-12.6V)	19V DC (18.5-19.4V)	24V DC (23.5-24.4V)
Input Current Typical (Max)	5.3A (6A)	3.8A (6A)	3.8A (6A)
Max Output Current	5A	3A	3A
Battery Charging Current	450mA	500mA	500mA
Transfer Efficiency	≥85%	≥85%	≥85%
Discharge Voltage Protection	9.1 ±0.1V	12.1 ±0.1V	12.1 ±0.1V
Charging Over Voltage Protection	12.6 ±0.025V	16.7 ±0.025V	16.7 ±0.025V
Ripple & Noise	150mV	150mV	150mV
Operating Temperature	0-45°C	0-45°C	0-45°C
LED Status Indicator	DC Input Applied and no load - LED Red if fully charged, flashing Red/Green if charging DC Input Applied and load connected - LED Red if fully charged, flashing Red/Green if not DC Input not connected, but load connected - LED Green DC Input not connected, output below 50mA or without load for 30s - LED off DC Overload - LED flashing Red/Green fast		
Batteries	2600mAh x 12 (3S4P) 11.1V 10.4A 115.44Wh	2600mAh x 12 (4S3P) 11.1V 10.4A 115.44Wh	2600mAh x 12 (4S3P) 11.1V 10.4A 115.44Wh
Battery Hold Up Time (Approximate)	25% load 7.5 hours, 50% load 3.5 hours, 100% load 1.8 Hours. 24V version slightly lower.		
Input / Output Connectors & Cables	2.1x5.5mm input, 2.5x5.5mm output. 500mm output cable plus adaptor plugs/sockets Other cable lengths optional consult sales office		
Recommended AC-DC front end	12V 80 Watts	19V 80 Watts	24V 100 Watts
Mechanical / Weight	Dimensions: 137 x 123 x 44mm Weight: 0.75 Kilos		
Storage when not in use	Battery Capacity between 40-60% 30 days -20°C-45°C, 90 days -20°C-35°C Charge UPS every 3-5 months when not in use.		

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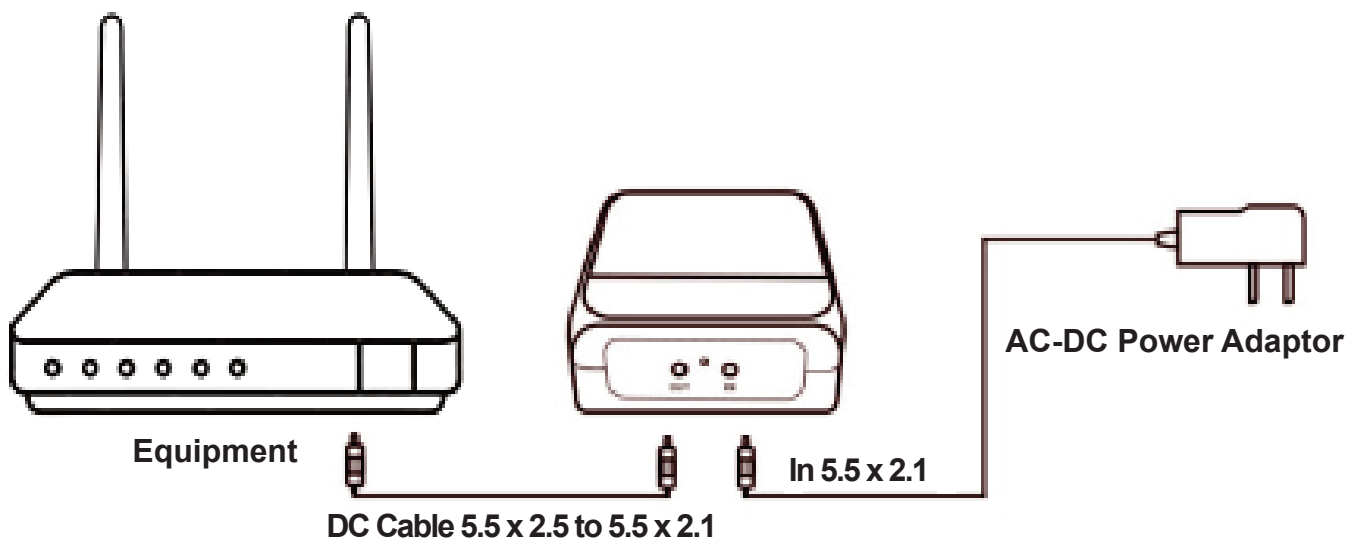
Lithium Battery Protection			
Model	PUPS106-12	PUPS106-19	PUPS106-24
Over Charge Protection	Detect Voltage 12.6V $\pm$ 0.025V Detection Delay Time 1000mS Release Voltage 12.1V $\pm$ 0.025V	Detected Voltage 6.7 $\pm$ 0.025V Detection Delay Time 1000mS Release Voltage 16.4V $\pm$ 0.025V	Detected Voltage 6.7 $\pm$ 0.025V Detection Delay Time 1000mS Release Voltage 16.4V $\pm$ 0.025V
Over Discharge Protection	Detect Voltage 9.1V $\pm$ 0.01V Detection Delay Time 82mS	Detect Voltage 12.1V $\pm$ 0.01V Detection Delay Time 1mS	Detect Voltage 12.1V $\pm$ 0.01V Detection Delay Time 1mS
Over Current Protection	Detect Voltage 0.0375 $\pm$ 0.025V Protection Current 12.5A Detection Delay Time 5-15mS Release Condition: Cut Load	Detect Voltage 0.0375 $\pm$ 0.025V Protection Current 12.5A Detection Delay Time 5-15mS Release Condition: Cut Load	Detect Voltage 0.0375 $\pm$ 0.025V Protection Current 12.5A Detection Delay Time 5-15mS Release Condition: Cut Load
Short Circuit Protection	Condition: External Short Cct Detection Delay Time $\geq$ 12uS Release Condition: Remove Short Cct	Condition: External Short Cct Detection Delay Time $\geq$ 12uS Release Condition: Remove Short Cct	Condition: External Short Cct Detection Delay Time $\geq$ 12uS Release Condition: Remove Short Cct

### Precautions

- Do not expose to moisture or water
- Do not expose to excessive heat
- Do not connect DC input/output cables wrong way around
- Do not use with wrong type of input AC-DC adaptor. Consult sales office for details
- DC input voltage must match with DC output voltage

### Applications

WiFi Routers VoIP Phone Systems POS Terminals CCTV Camera's DVR Recorders or any equipment powered by an external 12V, 19V or 24V DC Power Adaptor that needs to work during an AC Power Failure



Simple to use: Plug adaptor into input socket and product to be battery backed into output socket via the cable provided. Switch on AC-DC Adaptor. PUPS106 powers up automatically with or without Adaptor as long as load applied to output socket.

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