

# Mini DC UPS

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## PUPS22 & PUPS44 Series 5V or 12V Output Lithium Battery Powered Mini DC UPS

The PUPS series is a desk top DC UPS that is powered by either a 5VDC input source (for 5V output) or 12VDC input source (for 12V output) from a standard AC-DC power adaptor. The output 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 AC-DC power adaptor which has sufficient output power to provide the load and charge the internal batteries of the UPS. These products are available with 2 battery ratings of either 22.2 or 44.4 Watt hours.



### Specification

Input Voltage	5V±10% for 5V output version, 12V DC ±10% for 12V output version
Output Voltage	5V±10% for 5V version, 12V DC (10.8 - 12.6V under battery back up)
Input Current	5V 2.5A for 5V version, ≤12V 2.5A or 3A ( PUPS44-12)
Max Output Current	5V 2A for 5V models, 12V 2A for 12V models
Battery Charging Current	300mA ±10% 5V version and PUPS22-12, 1A ±10% (PUPS44-12)
Transfer Efficiency	85%
Discharge Voltage Protection	2.5V 5V version, 9V 12V version
Charging Over Voltage Protection	4.25V 5V version, 12.6V 12V version
Output Over Voltage Protection	5.5V +5% 5V version 12.6V +2% 12V version
Input Over Current Protection	≤3A
Ripple & Noise	75-150mV pk-pk depending on output voltage
Operating Temperature	-20°C to +50°C
Charging Indicator LED	Red - Charging, Green - Battery Charged
On/Off Switch	Switches battery on/off, but DC output still present when connected to DC input supply
Batteries	3 x 3.7V or 6 x 3.7V Lithium Cells. Output capacity 22.2 or 44.4 Watt hours
Battery Hold Up Time	Approximately:- 1 hour at full load PUPS22-12 or 2 hours for PUPS44-12 2 hours at full load PUPS22-05 or 4 hours for PUPS44-05
Input / Output Connectors & Cables	See ordering information
Recommended AC-DC front end	Powersolve:- Model ESA36-12 wall mount 36W adaptor for 12V models Model ESA24-05 wall mount 24W adaptor for 5V models
Mechanical	Dimensions 112L x 61W x 26mm H (43mm H for PUPS44-05 or -12)
Storage	6 months at 20°C, 3 months at 30°C, 2 months at 35°C If not used for long periods suggest charging every 3-5 months

### Ordering Information

Model	Connectors and cable
PUPS22-12-01 or PUPS44-12-01	2.1 x 5.5mm input socket, 400mm output cable with 2.1 x 5.5mm plug
PUPS22-12-02 or PUPS44-12-02	2.5 x 5.5mm input socket, 400mm output cable with 2.5 x 5.5mm plug
PUPS22-05-01 or PUPS44-05-01	2.1 x 5.5mm input socket, 400mm output cable with 2.1 x 5.5mm plug
PUPS22-05-02 or PUPS44-05-02	2.5 x 5.5mm input socket, 400mm output cable with 2.5 x 5.5mm plug

**NEW:** PUPS29 and PUPS38 now available with 12V 3A output and 29Wh or 38Wh battery capacity. Consult sales office for details

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## 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. we recommend our model ESA36-12
- DC input voltage must match with DC output voltage

**NOTE:** Also available with other output voltages and battery capacity please consult sales office for details

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