

PUPS Series

Lithium Battery Powered Mini DC UPS

CoolPower
Solutions

The PUPS series is a desk top DC UPS that is powered by a 5VDC input source and gives 5V 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 5V AC-DC adaptor which has enough output power to provide the load and charge the internal batteries of the UPS. These mini DC UPS are available with battery rating 22,2 Watt hours and simply plugs in between AC-DC adaptor and load.



Electrical specifications

Model		PUPS22-5
Input	Voltage	5 VDC \pm 10%
	Current (Full load)	2.5 A
Output	Max Output Power	10 W
	Voltage (VDC)	5 VDC \pm 10%
	Current (A) max.	2 A
	Battery Charging Current	300 mA \pm 10%
	Transfer Efficiency	85%
	Transfer time	10 ms typical
	Ripple & Noise	75 mV pk-pk max
Battery	Batteries	3 x 3.7V Lithium Cells
	Output capacity	22,2 Wh
	Battery Hold Up Time	App. 2 h at full load
Protection	Discharge Voltage Protection	2,5 V
	Charging Over Voltage Protection	4,25 V
	Output Over Voltage Protection	5,5 V +5%
	Input Over Current Protection	\leq 3 A
Environment	Operating Temperature	-20°C...+50°C
	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
	IP Grade	IP20
Physical	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
	Connectors & Cables	Input: 2,5/5,5mm socket; Output: 2,1/5,5mm socket Output cable: 400mm with 2,1/5,5mm plug on one end and 2,5/5,5mm plug on other end.
	Dimension (L x W x H)	112 x 61 x 26 mm
	Cooling Method	Free air convection
Options	Recommended AC-DC frontend	Model CPS-05030M/3617+

Versions

Model no	Output Voltage Vdc	Output Current A	Charging Current mA	Battery Capacity Wh	Input / Output Connections
PUPS22-05	5	2,0	300	22,2	2,5/5,5 mm / 2,1/5,5mm