

PUPS Series

Lithium Battery Powered Mini DC UPS

CoolPower
Solutions

The PUPS series is a desk top DC UPS that is powered by a 12VDC input source and gives 12V 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 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 2 battery ratings of either 22,2 or 44,4 Watt hours and simply plug in between AC-DC adaptor and load.



Electrical specifications

Model		PUPS22-12	PUPS44-12
Input	Voltage	12 VDC $\pm 10\%$	
	Current (Full load)	$\leq 12V$ 2.5 A	$\leq 12V$ 3 A
Output	Max Output Power	24 W	
	Voltage (VDC)	12 VDC (10.8 - 12.6 V under battery back up)	
	Current (A) max.	$\leq 12 V$ 2 A	
	Battery Charging Current	300 mA $\pm 10\%$	1 A $\pm 10\%$
	Transfer Efficiency	85%	
	Transfer time	10 ms typical	
Battery	Ripple & Noise	150 mV pk-pk max	
	Batteries	3 x 3.7V Lithium Cells	6 x 3.7V Lithium Cells
	Output capacity	22,2 Wh	44,4 Wh
	Battery Hold Up Time	App. 1 h at full load	App. 2 h at full load
Protection	Discharge Voltage Protection	9 V	
	Charging Over Voltage Protection	12,6 V	
	Output Over Voltage Protection	12,6 V $+2\%$	
	Input Over Current Protection	≤ 3 A	
Environment	Operating Temperature	$-20^{\circ}\text{C} \dots +50^{\circ}\text{C}$	
	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/Output: 2,5/5,5mm sockets; Output cable: 400mm with 2,5/5,5mm plugs Additional 2,1->2,5mm and 2,5->2,1mm adapters included.	
	Dimension (L x W x H)	112 x 61 x 26 mm	112 x 61 x 43 mm
	Cooling Method	Free air convection	
Options	Recommended AC-DC frontend	Model CPS-12030C8/3617+	

Versions

Model no	Output Voltage Vdc	Output Current A	Charging Current mA	Battery Capacity Wh	Input / Output Connections
PUPS22-12	12	2,0	300	22,2	2,5/5,5 mm sockets
PUPS44-12	12	2,0	1000	44,4	2,5/5,5 mm sockets