

Wall-mount 12V DC-output UPS UPS 12-7AH



- Rugged, industrial quality
- Conduction/convection cooled - no fan
- Full electronic protection
- Field-proven design topology

This unit is a small UPS with 12VDC output. A built in BCH 060 battery charger module provides 4A current for 3A rated output and for float charging the built-in 7Ah battery. During normal operation, the UPS 12-7AH serves as a power conditioner, blocking surges, spikes and transients while maintaining stable voltage and float-charging the built-in 7AH gel-cell battery. If the AC power fails, the battery powers the load. The unit also has a low battery disconnect circuit to prevent damage to the battery by low discharge during prolonged AC failure. Mounting flanges on the stainless steel case allow for either surface or wall mounting. Cooling is via baseplate to a heat-sinking surface and by natural convection. Full electronic protection, generous design headroom and the exclusive use of components with established reliability also contribute to high MTBF. The unit is manufactured at our plant under strict quality control.

SPECIFICATIONS

Input Voltage 95-264Vac universal 47-63Hz Input Current: 1.0Arms max.	Output Voltages/Currents 13.6Vdc \pm 0.1V/3A Total 50W max. (incl. 1A for charging). The output is floating; either terminal can be grounded	Efficiency Min. 80% at full load	Indicators Internal power ON LED for service purposes
Input Protection Inrush current limiting by surgeistor Varistor S14K275 Battery fuse (internal) Internal safety fuse Lower voltage than the specified minimum input will not damage the unit	Line/Load Regulation \pm 2% combined from zero load to full load	Operating Temperature Range 0°C to +50°C for full specification with proper installation Wider temperature range available on request	Control Input None
Isolation 2250Vdc input to chassis 4300Vdc input to output 8mm spacing 500Vdc output to chassis	Output Ripple/Noise Better than 30mVrms or 120mVpp (@20MHz BW) without battery)	Battery Temp. Compensation None	Alarm Outputs None
Standards Designed to meet EN 60950-1 and related standards	Output Overload Protection Rectangular current limiting with hiccup type short-circuit protection on the charger section Current Limit: +4.5A \pm 0.5A without battery Internal fuses: Battery: 15A fuse Output: 5A fuse	Temperature Drift 0.03% per deg. C over operating	Package/Dimensions (WxHxD) Stainless steel case: 157 x 71 x 254 mm (6.2" x 2.8" x 10") including mounting flanges
EMI EN55022 Class B	Output Over-voltage Protection Second regulator loop set at 15.0V \pm 1V	Cooling Conduction to customer heatsink or chassis and natural convection	Weight 4.55 kg (10 lb.) including battery
Switching Frequency 47kHz \pm 2kHz	Low Voltage Disconnect 10.5V \pm 0.5V	Environmental Protection Basic ruggedizing. Heavy ruggedizing for mobile applications available as option	Connections Compression type Phoenix terminal block (inside the case). Cable reliefs for incoming and outgoing cables
		Shock/Vibration IEC 61373 Cat 1 A&B	RoHS Compliance Fully compliant
		MTBF 150,000h at 45°C Demonstrated MTBF is significantly higher	Warranty Two years subject to application within good engineering practice



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