

## 12V DC-Output UPS UPS 12-14AH Series



- Made in North America
- Universal Input 95 - 264VAC
- Convection cooled - no fan
- Single output
- Fully protected
- Meets approval requirements

This unit is a compact UPS with 12Vdc at 10A output (float voltage 13.8Vdc). A built-in BCH 151 battery management module provides current for 10A rated output and for float charging a built-in 14Ah battery. During normal operation, the UPS 12-14AH serves as a power conditioner, blocking surges, spikes and transients while maintaining stable voltage and float-charging the built-in 14AH 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. The unit is convection cooled.

### SPECIFICATIONS

#### Input Voltage

95-264V AC universal  
47-63Hz  
Input Current: 3.2Arms max.

#### Input Protection

Inrush current limiting by surgistor  
Varistor S14K275  
Internal safety fuse  
Battery fuse (internal)  
Lower voltage than the specified minimum input will not damage the unit

#### Isolation

2250VDC input to chassis  
4300VDC input to output  
8mm spacing  
500VDC output to chassis

#### Standards

Meets requirements for UL 60950

#### EMI

EN55022 Class B

#### Switching Frequency

47kHz +/- 2kHz

#### Output Voltages/Currents

13.8Vdc +/-0.1V/10A  
Total 150W max. (incl. charging)  
The output is floating, either terminal can be grounded  
Consult factory for other voltages

#### Line/Load Regulation

± 2% combined from zero load to full load when charger is on.

#### Output Ripple/Noise

Better than 30mVrms or 120mVpp (@20MHz BW) without battery)

#### Output Overload Protection

Rectangular current limiting with hiccup type short-circuit protection  
Current Limit: 11A ±0.5A (without battery)  
Battery Line: 25A fuse  
Output: 15A fuse

#### Output Overvoltage Protection

Second regulator loop set at 16.0V ±1V

#### Low Voltage Disconnect

10.5V ±0.5V

#### Efficiency

Min. 80% at full load

#### Operating Temperature Range

0 to +50°C for full specification with proper installation  
Wider temperature ranges are available as an option

#### Temperature Drift

0.03% per deg. C over operating

#### Cooling

By convection

#### MTBF

150,000h at 45°C, battery excluded

#### Indicators

Charger ON LED

#### Control Input

None

#### Alarm Outputs

Low battery alarm  
Charger/AC fail alarm

#### Battery Temperature Compensation

None.  
Available as an option

#### Environmental Protection

Basic ruggedizing.  
Heavy ruggedizing for mobile applications available as option

#### Package/ Dimensions

Aluminum case: 5.5" x 10" x 7"

#### Weight

Approx 9 kg (20 lbs.) including battery

#### Connections

9-pole terminal block for input, output and battery  
6-pole WECO for alarms

#### Warranty

Twelve months subject to application within good engineering practice

Enhancements to these general specifications and customizing can be accommodated upon request. Specifications subject to change.

*Designer and manufacturer of quality converters, inverters, UPS systems, complete rack mount systems and DC-input fluorescent lamp inverters since 1982. Custom or standard. Absopulse is a BABT-approved Facility.*



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