



AC ISLAND - PORTABLE POWER SYSTEM

230VAC Power - Anywhere. Anytime



FEATURES

- Untethered, portable AC power
- USB Graphical User Interface
- Standard IEC 60320 Sheet F receptacles (3)
- Long run time: 8-12 hours typical
- High power output: 350/500VA peak loads
- Rapid recharge time: 3.5-hour maximum
- Medical and ITE Safety Approvals
- Low leakage: 300 μ Amps max mains to Earth
- Convenient LED fuel gauge
- Low profile package available: 197.7mm, (7.78") height

OVERVIEW

The AC Island is a portable AC power system delivering a true sine wave output for up to 12 hours, untethered. It's a one-box system, small and ergonomic, featuring the fastest recharge time in its class. Then, it's back to work -- Anywhere. Anytime!

Use the AC Island for applications in healthcare, inventory control, mobile audio/visual, field service calls, vehicles, trailers and much more. The AC Island uses TDI's smart charger technology to continuously adjust the charge rate for maximum battery performance, life and rapid recharge. The battery module is field-replaceable at the end of its service life.

SPECIFICATIONS

INPUT SPECIFICATIONS

Mains Voltage: 100-240VAC, 1 ϕ , 47-63 Hz
Line-to-Ground Leakage: Maximum 300 microAmps
Input Current: 5A RMS, max @ 100 VAC/full load
Inrush Current: 40A peak at turn-on

SEALED LEAD ACID (SLA) BATTERY

Field replaceable 720W/hr, Sealed Lead Acid battery module. Built-in smart charger and firmware maximize charge, performance and life by monitoring charge current, voltage, temperature and charge/discharge cycles.

OUTPUT SPECIFICATIONS

Total Power: 350VA continuous, 500VA peak
Output: 230VAC @ 1.5A, 50Hz. Contact factory for other voltages and frequencies
Total Harmonic Distortion: <2.0%
Line Regulation: 2.0% max
Load Regulation: 3.0%, 0 to 100% load
Inverter Efficiency: 85% typical at 50-100% load

PROTECTION

Over-voltage: Limits output voltage to 120% of nominal value
Short Circuit: Auto-recovery
Over-current: Foldback type. 120-130%. Auto-recovery
Over-temperature: Internal thermo-sensors. Auto-recovery
Input Over-current: Internal fusing on both AC lines
Input Surge: Internal MOV's

VISUAL INDICATORS

LED's (5 green) indicate remaining battery capacity in 20% increments. Last LED flashes and changes color (green to amber) to indicate shutdown pending and recharge required
LED (1 amber) indicates charging in process.

GRAPHICAL USER INTERFACE (GUI)

Optional GUI software allows the operator to click a Task Bar icon on their Window's desktop and instantly check the battery charge and status. The GUI shows:

Battery Capacity: % charge remaining

Battery Voltage: Present battery output voltage

Battery Current: Present battery output in amperes

Main Input: Indicates status of power input for charging

Battery Status: Indicates presence of a load and the charge remaining, in hours and minutes. Graphical object displays remaining battery charge. Battery module serial number, accumulated charge cycles and USB connection status are also displayed.

USER CALIBRATION

None required

ISOLATION

Input to Output: 4000VAC type tested

Input to Ground: 1800VAC

Output to Ground: 1800VAC

ENVIRONMENTAL

Temperature:

Normal Operation: 0°C to 40°

Storage: -10°C to +40°C (battery limit)

Temp. Coefficient: =0.02%/°C

Altitude, Operating: No deration to 10,000 feet (3,000m)

Humidity: 0-90%, non-condensing

Vibration, Operating: Test 3, Office Vibration, Bellcore NEBS

Vibration, Transport: 5-500Hz, 0.5-1.6g

PACKAGING AND COOLING

Physical Dimensions: 331mm (13.03")L x 197.7mm (7.78")W x 273.1mm (10.75")H

Weight: 23.4kg, 52 lbs.

SAFETY & EMC

cUL 60950-1, cUL 60601-1

IEC 60950-1, IEC 60601-1

CB Report and CE Marking to Low Voltage Directive, 'Component Power Supplies'

Harmonics: EN 61000-3-2

Static Discharge: EN 61000-4-2, '95 Level 3, stand-alone

RF Field Susceptibility: EN61000-4-3

Fast Transients/Burst: EN61000-4-4, Level 3

Surge Susceptibility: EN61000-4-5, Level 3, 2kV

Conducted Emissions: FCC Part 15, Sub-part B, Class A; and EN55022, Class A

WARRANTY

Two years from date of original shipment
 (Batteries warranted 1-year against manufacturer's defects, 3-months on battery performance)

GRAPHICAL USER INTERFACE

