

Powerstar PS503 Shipboard mil 1399,metal UPS-700va or 1000va  
(15.4"deep x 6.9" wide x 8.9" tall)

**POWERSTAR UPS** **Mission Critical Power**

PS503-700 Short Tower shipboard metal mil  
700VA UPS 630 Watts output power  
*Also PS503-1000 1000VA 900W output*  
*Built to meet MIL-std-1399*



Double conversion type UPS wired for Delta power  
Dual pole circuit breakers -No fuses  
Dimensions 390x 175x 225mm  
2 year warranty on all parts  
The board / component manufacturer is certified to ISO 9001.

Frequency can be set to 50 or 60Hz or track the input frequency

Smart UPS tests itself and batteries periodically  
Auto restart after a full run upon utility restoration  
Cold Start capable, premium batteries  
Field replaceable batteries through front panel while online  
NOW! Output Power Capacity 630Watts @ .9pf / 700 VA  
Nominal Output Voltage 120V (configurable 100-127VAC)  
*available as 230VAC euro model. PS503i-700*

Output Voltage Distortion Less than 3% at full load  
Crest Factor up to 5: 1 Waveform Type Sine wave  
Variable speed fan adjusts to internal temperature and limits noise  
*Optional: Premium High temperature rated Flame proof Long Life (8-10 year) battery available.*

**Output** 

(6) NEMA 5-15R

3% total harmonic distortion (THD) typical into a 100% linear load, 5% THD typical into a 100% non-linear load with crest factor ratio of 3:1.

>88% efficiency

**Inverter Overload Capability:** 200% for 10 seconds then transfer to bypass, 150% for 50 seconds then transfer to bypass

**Voltage Transient Response:** + 7% in line mode 0-100-0 % loading of the UPS,+ 7% in battery mode for 0-100-0 % loading of the UPS rating.

**Transient Recovery Time:** To nominal voltage within 90 milliseconds.

Output equipped with **Automatic Bypass** which connects input source to load should Inverter fail or load exceeds capacity of unit.

**Input**

Nominal Input Voltage 120V

Input Frequency 40/70 Hz (auto sensing)

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Input Connections NEMA 5-15P

Cord Length 10 feet (3.04 meters)

Input voltage range for main operations 60 - 144V

Transfer Time 0 ms (Inverter is always running)

Input Power Factor >.97 lagging at rated load

**Batteries & Runtime**

Battery Type Maintenance-free sealed Lead-Acid battery with suspended electrolyte: leak proof AGM technology - cfr49 shippable

Typical recharge time 5 hours to 95%

*Powerstar Premium High temperature long life (8-10 year) batteries available for this unit*

Load in Watts	200W	400W	600W	630W	800W	900W
PS503-700	26	14	6	6	-	-
PS503-1000	28	15	9	na	5	4

**Interface Port(s)**

USB serial interface will connect directly to a PC for automated shutdown routine. Also can be controlled and inspected with supplied Liebert™ software.

Optional: Slot Interface for SNMP Network Web card

**PS9059**- Ethernet 10/100 SNMP v1, v2c with Http interface as well as Microlink© software supplied



**Control panel**

**LED status display with 5 LEDs showing % of load, and 5 LEDs showing % of battery charge**

**Additional LEDs indicate Inverter ON, Fault, On battery, Bypass mode enabled, AC input**

**Audible Alarm -Alarm when on battery: distinctive low battery alarm (Alarm can be silenced via push button)**

**Dry contacts (12v 50ma): Emergency Power Off (EPO)- Output can be disabled via shorting two pins.**

**Battery mode Shutdown.**

**Indicator- Battery mode (contacts switch when on Battery) 30ma max.**

**Indicator- Low Battery (contacts switch when cells are weak) 30ma max.**

**Protection**

UPS conforms to an input line transient conforming to IEEE C62.41, Category A & B tests for 120 VAC. MOV ratings will be 175 Volt, 90 Joules minimum connected L1-L2. The MOVs will be rated 300 Volt, 150 Joules minimum connected L-G and L2-G. The L-G and L2-G connected MOVs will have the capability of being disconnected and reconnected easily.

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**Dimensions and Mounting**

Dimensions 15.4"x 6.9"x 8.9"

Net Weight 44 lbs. (20 kg.)

Shipping Weight 54 lbs.

Shipping Height 22 inches

Shipping Width 13 inches

Shipping Depth 14 inches

Color Black

Powerstar can supply a hull/ floor mounting plate with straps for secure hold-down. Plate can be bolted or welded to deck. PS503 Mounting Foundation weighs 35 lb. Hardware included.

**Operating Environment**

32 - 104 °F (0 - 40 °C) (battery dependent) -*This can be -20°C +50°C with our Premium battery upgrade.*

Operating Relative Humidity 0 - 95%

Operating Elevation 0-10000 feet (0-3000 meters)

Storage Temperature 5 - 113 °F (-15 - 45 °C)

Storage Relative Humidity 0 - 95%

Storage Elevation 0-50000 feet (0-15000 meters)

Audible noise at 1 meter from surface of unit <46 dBA (variable speed fan)

2 year warranty on parts and Labor

Manufactured in the USA by Powerstar

**Standards**

UL Standard 1778 (Suitable for Computer-Room Applications)

- c-UL
- FCC Part 15, Subpart B, Class A
- IEEE C62.41, Category A & B
- CE for both Low Voltage and EMC Directives
- ISTA Procedure 1A
- Modified for Delta Shipboard power

*Powerstar also offers comparable units in a 2u rack mount case 19.7"deep-PS3070rm2u or PS3100rm2u*



<http://www.powerstarinc.com>

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