



## Rechargeable Sealed Lead-Acid Battery

# PS-12550

## 12 Volt 55 Amp. Hrs.



### Features:

- Absorbent Glass Mat (AGM) technology for superior performance.
- Valve regulated, spill-proof construction.
- Power/volume ratio yielding unrivaled energy density.
- Built-in (recessed) battery handles for safe and easy transport
- Approved for transport by air. D.O.T., I.A.T.A., F.A.A. and C.A.B. certified.
- U.L. recognized under file number MH 20845.

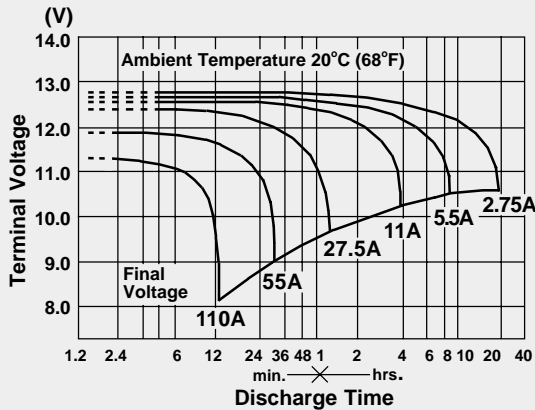


### PERFORMANCE SPECIFICATIONS

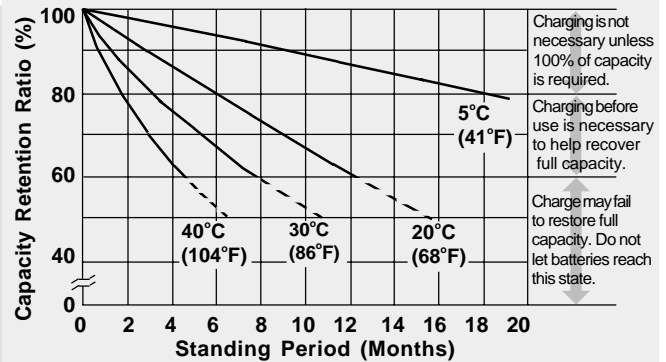
<b>Nominal Voltage</b> .....	12 volts (6 cells in series)
<b>Nominal Capacity</b>	
20 hour rate (2.75A to 10.50 volts) .....	55.0 A.H.
10 hour rate (5.10A to 10.50 volts) .....	51.0 A.H.
5 hour rate ( 8.80A to 10.20 volts) .....	44.0 A.H.
1 hour rate (30.6A to 09.00 volts) .....	30.6 A.H.
15 min rate (96.0A to 09.00 volts) .....	24.0 A.H.
<b>Approximate Weight</b> .....	41.3 pounds (18.77 kg)
<b>Energy Density (20 hour rate)</b> .....	1.66 Watt-hours/cubic inch (101.4 Watt-hours/l)
<b>Specific Energy (20 hour rate)</b> .....	16.0 Watt-hours/pound (35.16 Watt-hours/kg)
<b>Internal Resistance (Fully Charged Battery)</b> .....	5.5 milliohms (approximately)
<b>Maximum Discharge Current ( ≤ 7 Min.)</b> .....	165 amperes
<b>Maximum Short-Duration Discharge Current ( ≤ 10 Sec.)</b> .....	550 amperes
<b>Terminals</b> .....	“U” - Universal terminals: heavy duty posts with nut & bolt (“NB”) fasteners
<b>Shelf Life — % of nominal capacity at 68° F (20° C)</b>	
1 Month.....	97%
3 Months.....	91%
6 Months.....	83%
<b>Operating Temperature Range</b>	
<b>Charge</b> .....	-4°F (-20°C) to 122°F (50°C)
<b>Discharge</b> .....	-4°F (-20°C) to 140°F (50°C)
<b>Case</b> .....	ABS Plastic

CONSTANT POWER DISCHARGE RATINGS								
MODEL	FINAL VOLTAGE	WATTS PER CELL @ 25° C						
		5 MIN	10 MIN	15 MIN	20 MIN	30 MIN	45 MIN	60 MIN
PS-12550	1.75	320	210	184	153	115	87	72
	1.70	342	225	190	158	118	89	73
	1.67	354	250	202	160	120	90	74

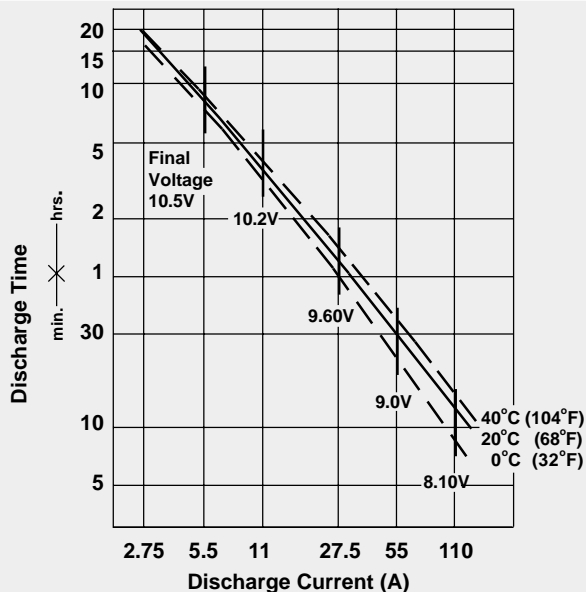
**Discharge Characteristics**



**Shelf Life and Storage**



**Discharge Time vs. Discharge Current**



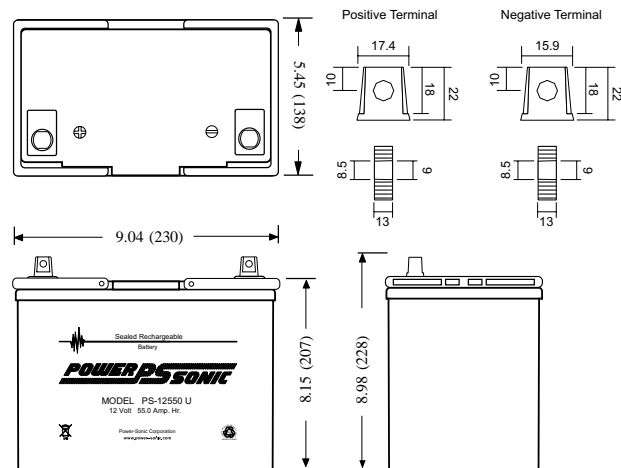
**CHARGING**

**Cycle Applications:** Limit initial current to 15A. Charge until battery voltage (under charge) reaches 14.40 to 14.70 volts at 68°F (20°C). Hold at 14.40 to 14.70 volts until current drops to approximately 550mA.  
**“Float” or “Stand-By” Service:** Hold battery across constant voltage source of 13.50 to 13.80 volts continuously.

**NOTE:** Due to the self-discharge characteristics of this type of battery, it is imperative that they be charged after 6-9 months of storage, otherwise permanent loss of capacity might occur as a result of sulfation.

Physical Dimensions: in. (mm)

Terminal Detail



Tolerances are +/- 0.04 in. (+/- 1mm) and +/- 0.08 in. (+/- 2mm) for height dimensions.

All data subject to change without notice.



**SALES & MARKETING**  
 3106 Spring Street  
 Redwood City, CA 94063 USA  
 Tel: 650-364-5001 Fax: 650-366-3662  
 national-sales@power-sonic.com



**ISO9001-2000**  
 FM39170

www.power-sonic.com

**CUSTOMER SERVICE**  
 7550 Panasonic Way  
 San Diego, CA 92154 USA  
 Tel: 619-661-2030 Fax: 619-661-3648  
 customer-service@power-sonic.com