



**POWERSONIC**

**RECHARGEABLE SEALED LEAD-ACID BATTERY  
HIGH-RATE SERIES**

# PSH-12180 FR

## 12 Volt 21.0 Amp. Hrs.



### Features:

- Absorbent Glass Mat (AGM) technology for superior performance.
- Designed specifically for high-rate discharge (UPS) applications.
- 80 Watts/cell for 15 min. of constant power
- Rugged plastic case and cover, flame retardant to UL94 V-0.
- 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.



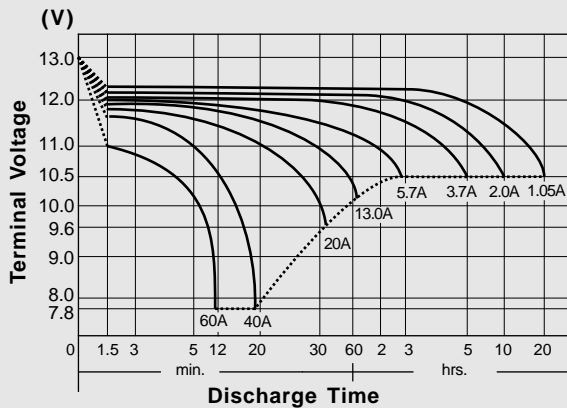
### PERFORMANCE SPECIFICATIONS

<b>Nominal Voltage</b> .....	12 volts (6 cells in series)
<b>Nominal Capacity</b>	
20 hour rate (1.05A to 10.50 volts) .....	21.0 A.H.
10 hour rate (2.0A to 10.50 volts) .....	20.0 A.H.
5 hour rate (3.7A to 10.20 volts) .....	18.5 A.H.
1 hour rate (13.0A to 9.00 volts) .....	13.0 A.H.
15 min rate (40.0A to 9.00 volts) .....	10.0 A.H.
<b>Approximate Weight</b> .....	13.3 pounds (6.0 kg)
<b>Energy Density (20 hour rate)</b> .....	1.77 Watt-hours/cubic inch (107.7 Watt-hours/l)
<b>Specific Energy (20 hour rate)</b> .....	18.9 Watt-hours/pound (42.0 Watt-hours/kg)
<b>Internal Resistance (Fully Charged Battery)</b> .....	8 milliohms (approximately)
<b>Maximum Discharge Current ( 7 Min.)</b> .....	63 amperes
<b>Maximum Short-Duration Discharge Current ( 10 Sec.)</b> .....	210 amperes
<b>Terminals</b> .....	"NB": Tin plated brass post with 5mm nut & bolt connectors
<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 (60°C)
<b>Case &amp; Cover</b> .....	ABS plastic (UL94 V-O flame retardant)

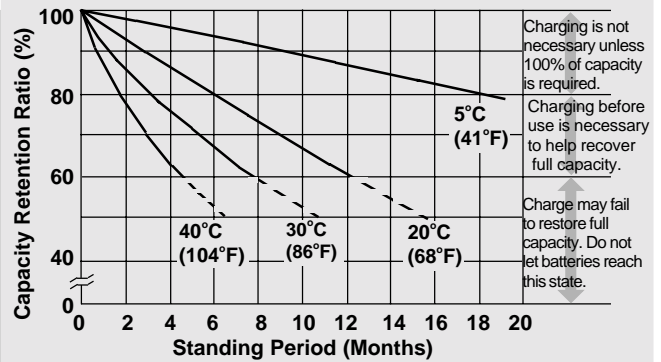
To ensure safe and efficient operation always refer to the latest edition of our Technical Manual, as published on our website.

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
PSH-12180	1.75	140	106	80	65	50	36	26
	1.70	142	107	80	66	51	37	26
	1.67	144	108	82	67	52	38	27

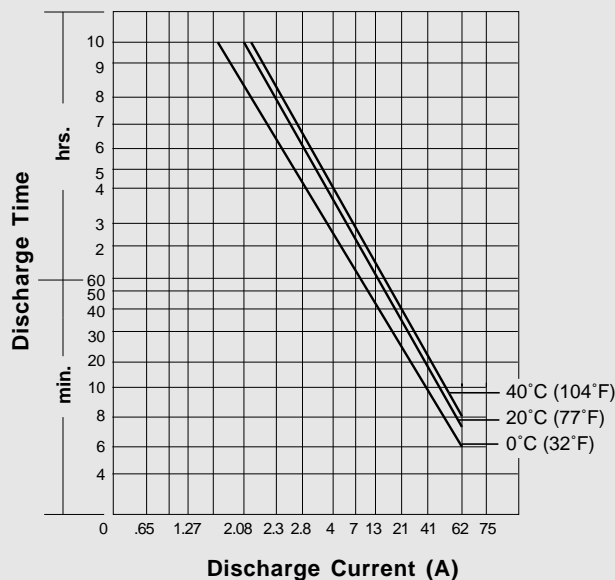
Discharge Characteristics



Shelf Life and Storage



Discharge Time vs. Discharge Current



**CHARGING**

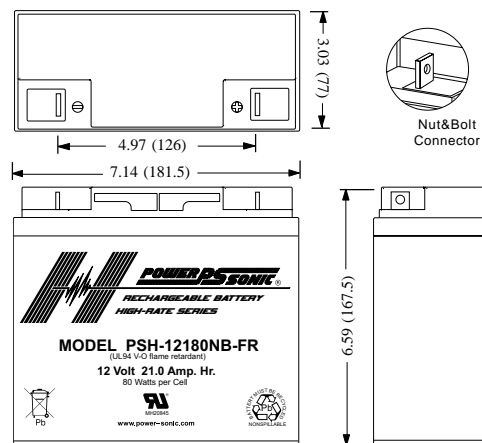
**Cycle Applications:** Limit initial current to 6A. Charge until battery voltage (under charge) reaches 14.40 to 14.70 volts at 68°F (20°C). Hold at 14.40 to 14.70 volts until current drops to approximately 210mA.

**“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)

Terminals:



All data subject to change without notice.

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



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