

PSH-12180FR 12 Volt 21.0 AH

Rechargeable Sealed Lead Acid Battery
HIGH-RATE SERIES

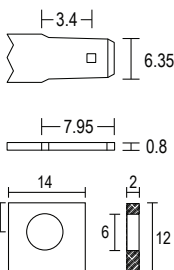
We've Got The Power.™



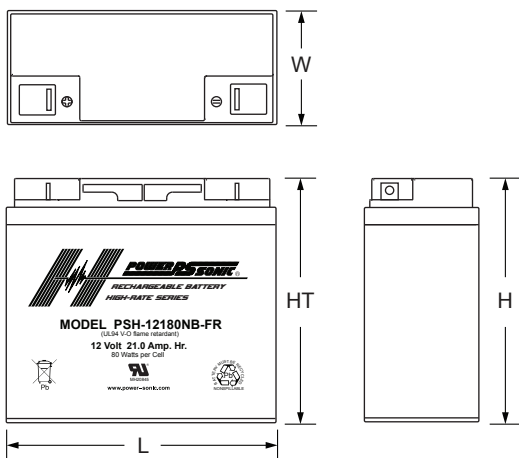
Terminals

(mm)

- PS-12180 F2: Quick disconnect AMP, INC. Faston tabs, 0.250" x 0.032"
- PS-12180 NB2: Tin plated brass post with 5mm nut & bolt connectors



Physical Dimensions: in (mm)



L: 7.14 (181) W: 3.03 (77) H: 6.59 (167) HT: 6.59 (167)

Tolerances are +/- 0.04 in. (+/- 1mm) and +/- 0.08 in. (+/- 2mm) for height dimensions. All data subject to change without notice.

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

Nominal Voltage 12 volts (6 cells)

Nominal Capacity

20-hr. (1.05A to 10.50 volts)	21.00 AH
10-hr. (2A to 10.50 volts)	20.00 AH
5-hr. (3.7A to 10.20 volts)	18.50 AH
1-hr. (13A to 9.00 volts)	13.00 AH
15-min. (40A to 9.00 volts)	10.00 AH

Approximate Weight 13.20 lbs. (5.99 kg)

Energy Density (20-hr. rate) 1.77 W-h/in³ (107.86 W-h/l)

Specific Energy (20-hr. rate) 19.09 W-h/lb (42.09 W-h/kg)

Internal Resistance (approx.) 12 milliohms

Max Discharge Current (7 Min.) 63.0 amperes

Max Short-Duration Discharge Current (10 Sec.)..... 210.0 amperes

Shelf Life (% of nominal capacity at 68°F (20°C))

1 Month	97%
3 Months.....	91%
6 Months	83%

Operating Temperature Range

Charge.. -4°F (-20°C) to 122°F (50°C)

Discharge..... -40°F (-40°C) to 140°F (60°C)

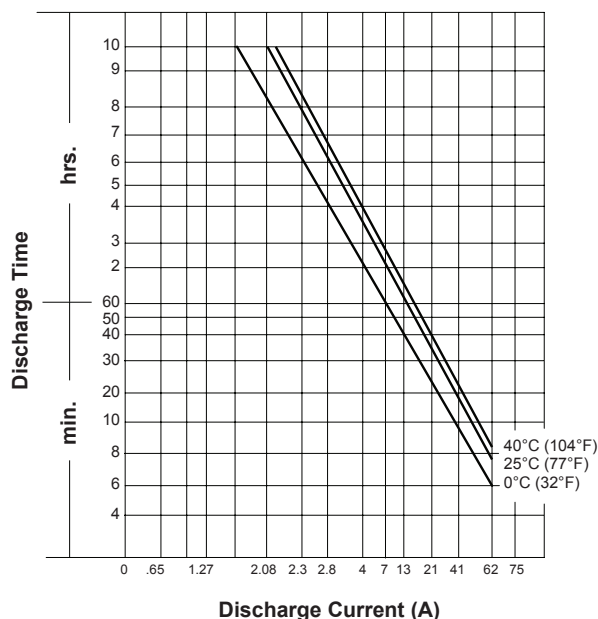
Case ABS Plastic (UL94 V-0 flame retardant)

Power-Sonic Chargers PSC-122000A, 124000A, 122000A-C, 124000A-C

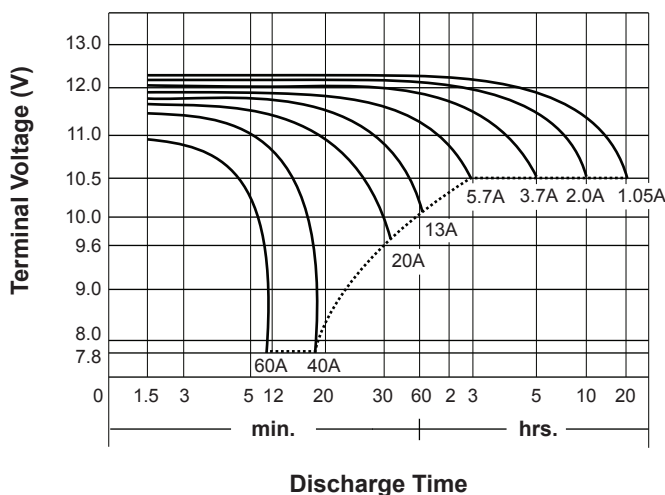
Constant Power Discharge Ratings

MODEL	FINAL VOLTAGE	WATTS PER CELL @ 25° C						
		5 MIN	10 MIN	15 MIN	20 MIN	30 MIN	45 MIN	60 MIN
PSH-12180FR	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

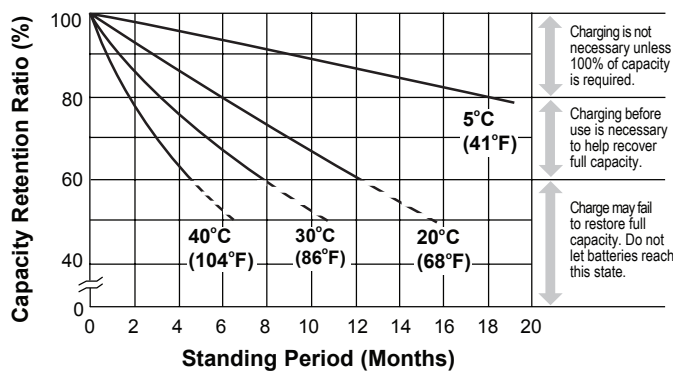
Discharge Time vs. Discharge Current



Discharge Characteristics



Shelf Life & Storage



Charging

Cycle Applications: Limit initial current to 6.3A. Charge until battery voltage (under charge) reaches 14.4 to 14.7 volts at 68°F (20°C). Hold at 14.4 to 14.7 volts until current drops to under 210mA. Battery is fully charged under these conditions, and charger should be disconnected or switched to “float” voltage.

“Float” or “Stand-By” Service: Hold battery across constant voltage source of 13.5 to 13.8 volts continuously. When held at this voltage, the battery will seek its own current level and maintain itself in a fully charged condition.

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

Chargers

Power-Sonic offers a wide range of chargers suitable for batteries up to 100AH. Please refer to the Charger Selection Guide in our specification sheets for “C-Series Switch Mode Chargers” and “Transformer Type A and F Series”. Please contact our Technical department for advice if you have difficulty in locating suitable models.

Further Information

Please refer to our website www.power-sonic.com for a complete range of useful downloads, such as product catalogs, material safety data sheets (MSDS), ISO certification, etc..

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