



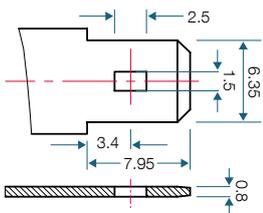
# PSH-12180FR

12V 21.0 AH @ 20-hr.  
80 W/Cell @ 15-min.

Rechargeable Sealed Lead Acid Battery  
PSH – High-Rate Series

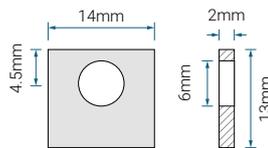
### TERMINALS (mm)

**F2:** Quick disconnect tabs, 0.250" x 0.032" - Mate with AMP. INC FASTON "250" series



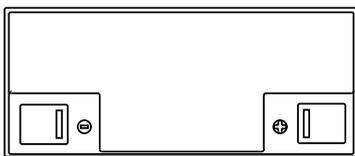
Torque - Not Applicable

**NB2:** Tin plated brass post with 'Nut & Bolt' fasteners



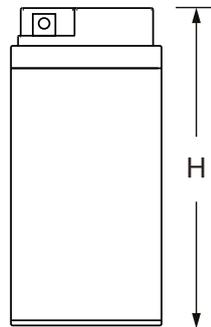
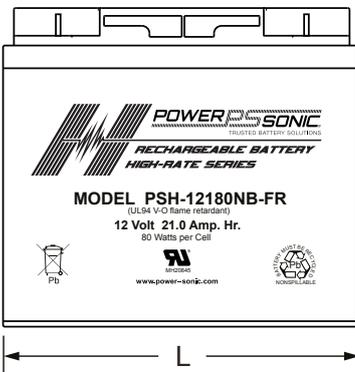
Torque: 3.9~5.4 Nxm

### DIMENSIONS inch (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.



### CORPORATE HEADQUARTERS (USA AND INTERNATIONAL EXCLUDING EMEA)

**Power-Sonic Corporation**  
7550 Panasonic Way, San Diego,  
California 92154  
**T:** +1 (619) 661 2020  
**F:** +1 (619) 661 3650  
**E:** customer-service@power-sonic.com

### POWER-SONIC EUROPE LIMITED (EMEA – EUROPE, MIDDLE EAST AND AFRICA)

3 Buckingham Square,  
Hurricane Way, Wickford,  
Essex SS11 8YQ  
**T:** +44 (0)1268 560686  
**F:** +44 (0)1268 560902  
**E:** salesEMEA@power-sonic.com

### FEATURES

- Absorbent Glass Mat (AGM) technology for superior performance
- Designed specifically for high-rate discharge applications
- Valve regulated, maintenance free spill proof construction
- Exceptionally high energy density
- Constant power (watts/cell)
- Rugged vibration and impact resistant ABS case and cover flame retardant to UL94-V0

### APPROVALS

- Approved for transport by air. D.O.T., I.A.T.A., F.A.A. and C.A.B. certified
- U.L recognized
- ISO9001:2015 – Quality management systems

### PERFORMANCE SPECIFICATIONS

<b>Nominal Voltage</b>	12 volts (6 cells)
<b>Nominal Power (15 min.)</b>	80 W/Cell
<b>Rated Capacity</b>	
20-hr. (1.05A to 10.50 volts)	21.0 AH
10-hr. (2.0A to 10.50 volts)	20.0 AH
5-hr. (3.7A to 10.20 volts)	18.5 AH
1-hr. (13A to 9.00 volts)	13.0 AH
15-min. (40.0A to 9.00 volts)	10.0 AH
<b>Approximate Weight</b>	13.2 lbs. (5.99 kg)
<b>Internal Resistance (approx.)</b>	12.0 milliohms
<b>Max Discharge Current (5 Sec.)</b>	63.0 amperes
<b>Max Short-Duration Discharge Current (10 Sec.)</b>	210.0 amperes
<b>Shelf Life</b> (% of nominal capacity at 68°F (20°C))	
1 Month	97%
3 Month	91%
6 Month	83%
<b>Operating Temperature Range</b>	
Charge	5°F (-15°C) to 122°F (50°C)
Discharge	-4°F (-20°C) to 140°F (60°C)
<b>Case and Cover</b>	Flame Retardant ABS Plastic UL94:V-0
<b>Power Sonic Chargers</b>	PSC-122000A-C PSC-124000A-C PSC-124000-PC PSC-243500-PC

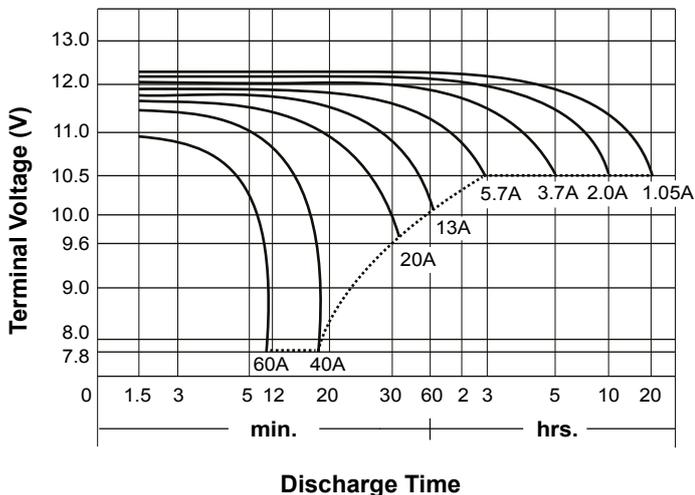
## PSH-12180FR 12V 21.0 AH @ 20-hr. 80 W/Cell @ 15-min.

Rechargeable Sealed Lead Acid Battery  
PSH – High-Rate Series

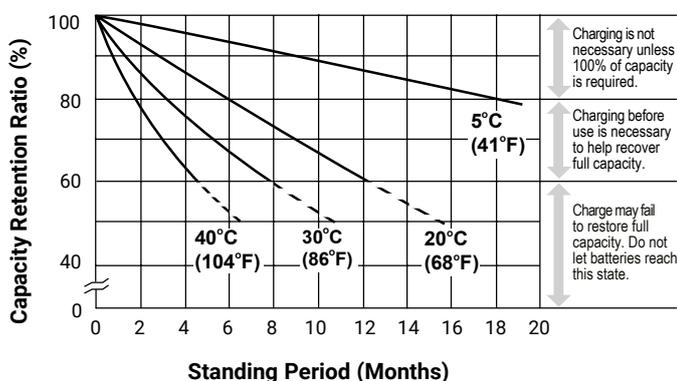
### CONSTANT POWER DISCHARGE (WATTS/CELL) AT 25°C (77°F)

Model	Final Voltage	Watts per Cell @ 25°C (68°F)						
		5min	10min	15min	20min	30min	45min	60min
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 CHARACTERISTICS



### SHELF LIFE & STORAGE



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### CHARGING

**Cycle Applications:** Apply constant voltage charge at 2.35v/c – 2.45v/c (14.1 – 14.7v for 12v Monobloc) at 20°C. Initial charging current should be set at less than 0.25C Amps. Switch to float charge to avoid overcharging.

**“Float” or “Stand-By” Service:** Apply constant voltage charge of 2.25v/c – 2.30v/c (13.5 to 13.8 volts for 12v Monobloc at 20°C. When held at this voltage, the battery will seek its own current level and maintain itself in a fully charged condition.

**Temperature Compensation:** Charging Voltage for both Cyclic and Standby applications should be regulated in relation to ambient temperature. As temperature rises charging voltage should be reduced to prevent overcharge and increased as temperature falls to avoid undercharge.

For further charging information including temperature compensation factors, see Power Sonic Technical Manual/ Power Sonic Charger specifications.

### APPLICATIONS

- UPS
- Data Center
- Telecoms
- Fire and Security

### CHARGERS

Power Sonic offers a wide range of chargers suitable for batteries with a variety of capacities.

Please refer to our website for more information on our switch mode and transformer type chargers.

Please contact our technical department for advice if you have difficulty in locating a suitable charger.

### FURTHER INFORMATION

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