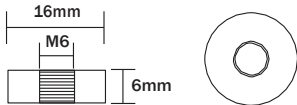


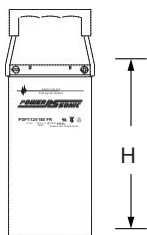
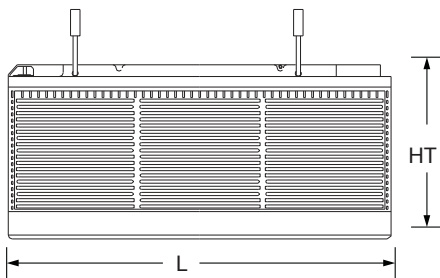
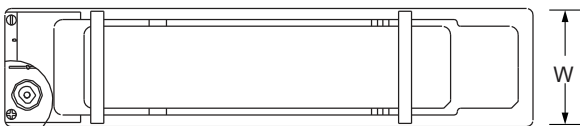


**Terminals (mm)**

- T6: Threaded insert w. 6 mm stud fastener



**Physical Dimensions: in (mm)**



**L: 21.69 (551) W: 4.33 (110) H: 11.30 (287) HT: 11.30 (287)**

Tolerances are ±0.04 in. (±1mm) and ±0.08 in. (±2mm) for height dimensions.

**Features**

- Long Service Life - Thick plate design and efficient gas recombination yield a service life expectancy of up to 12 years in standby mode.
- Low Internal Resistance - Superb high-rate discharge characteristics ensure reliable performance in UPS and Telecom applications.
- Maintenance-Free, Non-Spillable - Proven VRLA technology guarantees safe operation without maintenance and 'non-restricted article' status for transportation.
- Handles - Integral carrying handles.
- Low Self-Discharge - Lead-calcium alloy grids and use of high purity lead account for superior shelf-life characteristics permitting storage for extended periods of time.
- Designed-In Reliability - Cutting-edge manufacturing and process control combined with meticulous quality assurance procedures guarantee consistent and dependable performance.

**Performance Specifications**

Nominal Voltage..... 12 volts (6 cells)

**Nominal Capacity**

|                                     |          |
|-------------------------------------|----------|
| 20-hr. (7.94A to 10.80 volts) ..... | 158.8 AH |
| 10-hr. (15.0A to 10.80 volts) ..... | 150.0 AH |
| 8-hr. (17.8A to 10.50 volts) .....  | 142.4 AH |
| 5-hr. (26.1A to 10.50 volts) .....  | 130.5 AH |
| 3-hr. (40.5A to 9.60 volts) .....   | 121.5 AH |
| 1-hr. (95.9A to 9.60 volts) .....   | 95.9 AH  |

Approximate Weight ..... 102.3 lbs. (46.4 kg)

Energy Density (10-hr. rate) ..... 1.70 W-h/in<sup>3</sup> (103.5 W-h/l)

Specific Energy (10-hr. rate) ..... 17.60 W-h/lb (38.79 W-h/kg)

Internal Resistance (approx.) ..... 3.0 milliohms

Max Short-Duration Discharge Current (10 Sec.)..... 1500 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)

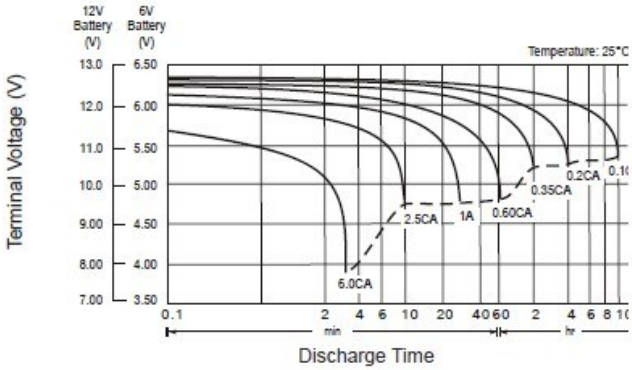
Case ..... ABS Plastic (UL94 V-0 flame retardant)

Power-Sonic Chargers ..... n/a

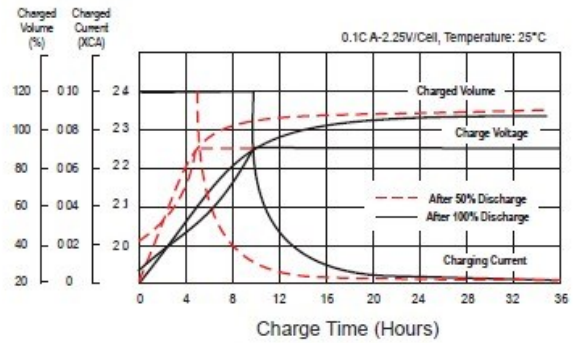
## AMPS/WATTS @ 25 °C

|       | 10 min      | 15 min      | 20 min      | 30 min      | 45 min      | 1h         | 2h         | 3h        | 4h        | 5h        | 8h        | 10h       | 20h       |
|-------|-------------|-------------|-------------|-------------|-------------|------------|------------|-----------|-----------|-----------|-----------|-----------|-----------|
| 1.85V | 216.9/405.0 | 190.8/359.8 | 171.0/325.8 | 136.8/263.5 | 105.8/205.5 | 85.7/166.9 | 50.9/99.9  | 37.3/73.4 | 29.9/59.0 | 25.1/49.5 | 17.2/28.7 | 14.3/24.4 | 7.50/15.2 |
| 1.80V | 252.0/465.1 | 220.2/409.8 | 190.8/358.2 | 148.5/281.7 | 112.5/217.0 | 90.6/175.5 | 52.7/102.8 | 38.5/75.5 | 30.8/60.5 | 25.8/50.8 | 17.8/35.5 | 15.0/29.9 | 7.94/15.9 |
| 1.75V | 278.1/505.1 | 237.0/435.7 | 203.4/378.2 | 154.8/291.2 | 115.8/221.1 | 93.0/179.5 | 53.9/104.7 | 39.2/76.5 | 31.2/61.1 | 26.1/51.3 | 18.1/35.9 | 15.2/30.2 | 8.02/16.0 |
| 1.70V | 296.1/525.7 | 248.4/450.3 | 211.5/390.4 | 160.5/300.3 | 118.8/226.0 | 94.5/181.8 | 54.7/105.9 | 39.7/77.4 | 31.6/61.8 | 26.4/51.6 | 18.3/36.3 | 15.3/30.5 | 8.07/16.1 |
| 1.67V | 309.6/547.5 | 256.8/453.7 | 216.0/397.1 | 163.8/305.8 | 121.0/229.4 | 95.9/183.9 | 55.4/107.2 | 40.1/77.9 | 31.9/62.3 | 26.7/52.3 | 18.5/36.6 | 15.5/30.8 | 8.12/16.2 |
| 1.60V | 323.1/555.7 | 264.0/457.2 | 222.3/402.9 | 167.4/308.5 | 123.4/231.4 | 97.5/185.3 | 56.1/107.5 | 40.5/78.3 | 32.2/62.5 | 27.1/52.8 | 18.7/36.9 | 15.6/31.0 | 8.16/16.2 |

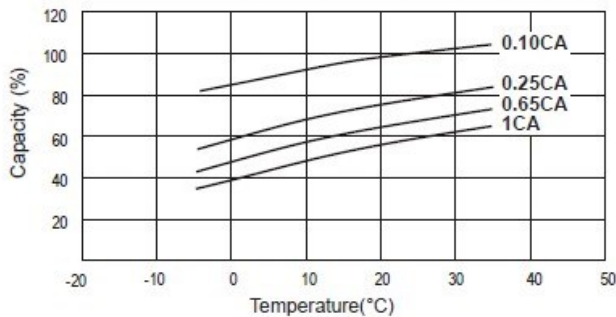
### Discharge Characteristics



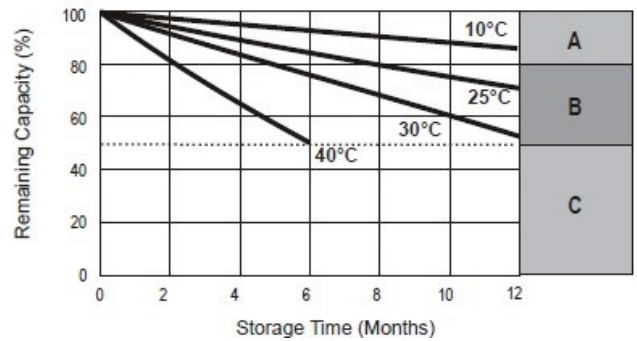
### Float Charging Characteristics



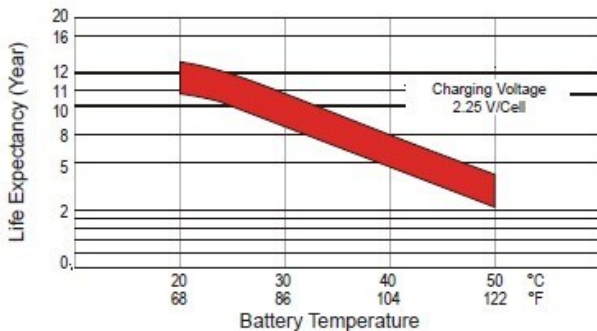
### Temperature Effects in Relation to Battery Capacity



### Self Discharge Characteristics



### Effect of Temperature on Long-Term Float Life



- A** No supplementary charge required  
(Carry out supplementary charge before use if 100% capacity is required.)
- B** Supplementary charge required before use. Optional charging way as below:  
1. Charged for above 3 days at limited current 0.25CA and constant voltage 2.25V/cell.  
2. Charged for above 20hours at limited current 0.25CA and constant voltage 2.45V/cell.  
3. Charged for 8~10hours at limited current 0.05CA.
- C** Supplementary charge may often fail to recover the capacity.  
The battery should never be left standing till this is reached

## Charging

**Cycle Applications:** Limit initial current to 50A. 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 1.50A. 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.

## Contact Information



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