

## PHR-12350

**12 Volt 98 AH @ 20-hr. rate**  
**340 W/Cell @ 15-min. rate**

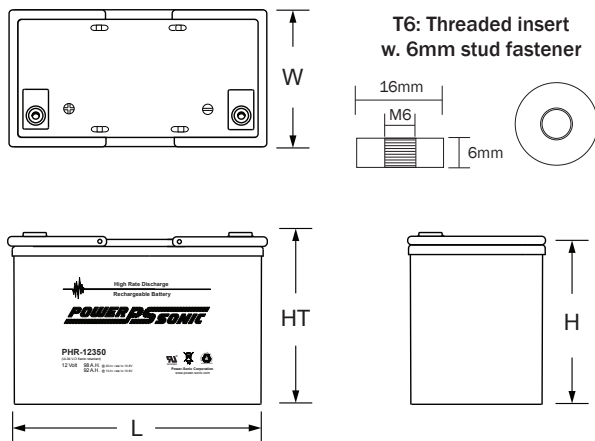
**Rechargeable Sealed Lead Acid Battery**  
**PHR HIGH RATE SERIES**



**We've Got The Power.™**



### Physical Dimensions: in (mm)



**L: 11.97(304) W: 6.61 (168) H: 8.19 (208) HT: 9.12 (229)**

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

### Features

- Superb high-rate discharge characteristics that ensure reliable performance in UPS applications for up to 10 years. UL recognized
- Flame retardant ABS case and cover to UL 94 V-0 for superior performance
- VRLA Absorbent Glass Mat (AGM) Technology guarantees safe operation without maintenance and "non-restricted article" status for transportation. Approved for transport by air. D.O.T., I.A.T.A. and F.A.A. certified.
- Precision plate pasting for higher consistency with 100% load testing to ensure uniform capacity
- Patented dual-paste process for enhanced active material bonding, and computer guided volumetric electrolyte control for precision filling
- Lead-calcium alloy grids and the use of high purity lead account for superior shelf-life characteristics

### Performance Specifications

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

**Nominal Power (15 min.)** ..... 340 W/Cell

#### Rated Capacity

|         |                        |         |
|---------|------------------------|---------|
| 20-hr.  | (4.9A to 10.50 volts)  | 98.0 AH |
| 10-hr.  | (9.2A to 10.50 volts)  | 92.0 AH |
| 8-hr.   | (11A to 10.20 volts)   | 88.0 AH |
| 5-hr.   | (15.8A to 10.20 volts) | 79.0 AH |
| 1-hr.   | (55.2A to 9.00 volts)  | 55.2 AH |
| 15-min. | (168A to 9.00 volts)   | 42.0 AH |

**Approximate Weight** ..... 68.7 lbs. (31.2 kg)

**Internal Resistance (approx.)** ..... 6.5 milliohms

**Max Discharge Current (5 Sec.)** ..... 720 amperes

**Max Short-Duration Discharge Current (0.1 Sec.)** ..... 1800 amperes

#### Charging Voltage @ 77 °F (20 °C)

**Standby Use** ..... 2.275 ± 0.025 V/Cell, (-3.3mV/°C/Cell)

**Cycle Use**..... 2.45±0.05 V/Cell, (-5 mV / °C/Cell)

**Maximum Charging Current** .....27.0 A

**Case** ..... Flame Retardant ABS Plastic (UL 94 V-0)

### Constant Current Discharge (Amperes) at 25°C

### Constant Power Discharge (Watts/Cell) at 25°C (Blue)

| PHR-12350 | 5 min  | 10 min | 15 min | 20 min | 30 min | 45 min | 1h    | 2h    | 3h    | 4h    | 5h    | 6h    | 8h    | 10h   | 20h  |
|-----------|--------|--------|--------|--------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|------|
| 1.85V     | 185.29 | 148.61 | 128.39 | 107.49 | 85.46  | 64.69  | 52.90 | 30.83 | 23.09 | 19.00 | 15.91 | 13.92 | 11.16 | 9.63  | 5.14 |
| 1.80V     | 248.77 | 189.90 | 155.19 | 126.99 | 100.75 | 75.21  | 59.22 | 33.04 | 24.86 | 20.11 | 16.90 | 14.81 | 11.82 | 9.94  | 5.33 |
| 1.75V     | 280.44 | 208.69 | 169.51 | 136.67 | 104.68 | 78.02  | 62.02 | 34.36 | 25.85 | 20.88 | 17.35 | 15.25 | 12.15 | 10.21 | 5.46 |
| 1.70V     | 308.87 | 227.47 | 181.01 | 143.55 | 108.89 | 81.11  | 63.99 | 36.24 | 27.18 | 21.77 | 18.34 | 16.02 | 12.71 | 10.61 | 5.59 |
| 1.67V     | 333.73 | 243.11 | 191.56 | 152.07 | 114.58 | 82.96  | 65.89 | 37.45 | 28.20 | 22.58 | 18.84 | 16.52 | 13.11 | 10.87 | 5.75 |
| 1.65V     | 340.54 | 245.56 | 192.52 | 152.53 | 114.92 | 83.21  | 66.09 | 37.57 | 28.29 | 22.65 | 18.89 | 16.57 | 13.15 | 10.91 | 5.77 |
| 1.60V     | 375.59 | 266.55 | 205.85 | 162.49 | 121.24 | 86.72  | 68.48 | 38.56 | 29.06 | 23.09 | 19.34 | 16.90 | 13.37 | 11.16 | 5.86 |
| 1.85V     | 56.46  | 45.76  | 39.94  | 33.75  | 27.13  | 20.70  | 17.00 | 10.07 | 7.59  | 6.24  | 5.27  | 4.62  | 3.72  | 3.20  | 1.71 |
| 1.80V     | 75.01  | 57.80  | 47.62  | 39.31  | 31.53  | 23.90  | 18.97 | 10.75 | 8.12  | 6.59  | 5.56  | 4.88  | 3.90  | 3.31  | 1.77 |
| 1.75V     | 82.77  | 62.50  | 51.38  | 41.89  | 32.46  | 24.56  | 19.74 | 11.14 | 8.40  | 6.80  | 5.67  | 5.01  | 4.03  | 3.39  | 1.81 |
| 1.70V     | 88.61  | 66.57  | 54.09  | 43.69  | 33.58  | 25.44  | 20.30 | 11.71 | 8.84  | 7.09  | 5.98  | 5.25  | 4.20  | 3.52  | 1.86 |
| 1.67V     | 94.40  | 70.46  | 56.78  | 45.93  | 35.04  | 25.76  | 20.78 | 12.03 | 9.12  | 7.33  | 6.13  | 5.40  | 4.31  | 3.60  | 1.91 |
| 1.65V     | 96.32  | 71.17  | 57.06  | 46.07  | 35.15  | 25.84  | 20.84 | 12.06 | 9.15  | 7.35  | 6.15  | 5.41  | 4.33  | 3.61  | 1.92 |
| 1.60V     | 103.79 | 75.52  | 60.03  | 48.53  | 36.83  | 26.80  | 21.45 | 12.32 | 9.34  | 7.49  | 6.28  | 5.51  | 4.40  | 3.68  | 1.95 |