

## PHR-12300

**12 Volt 80 AH @ 20-hr. rate**  
**279 W/Cell @ 15-min. rate**

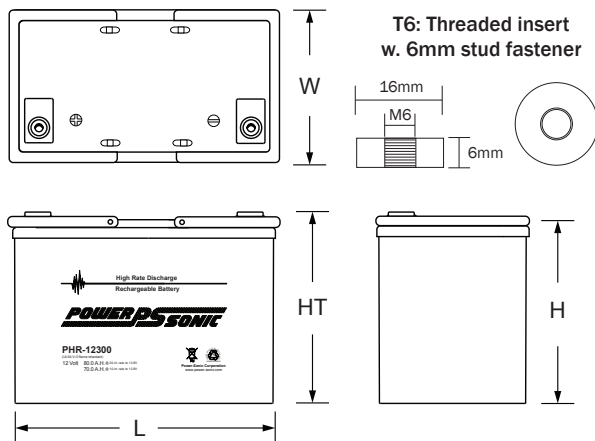
**Rechargeable Sealed Lead Acid Battery**  
**PHR HIGH RATE SERIES**



**We've Got The Power.™**



### Physical Dimensions: in (mm)



**L: 10.20 (259) W: 6.61 (168) H: 8.19 (208) HT: 8.94 (227)**

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.)** ..... 279 W/Cell

#### Rated Capacity

|         |                        |         |
|---------|------------------------|---------|
| 20-hr.  | (4.0A to 10.50 volts)  | 80.0 AH |
| 10-hr.  | (7.5A to 10.50 volts)  | 75.0 AH |
| 8-hr.   | (9.0A to 10.20 volts)  | 72.0 AH |
| 5-hr.   | (12.9A to 10.20 volts) | 64.5 AH |
| 1-hr.   | (45A to 9.00 volts)    | 45.0 AH |
| 15-min. | (140A to 9.00 volts)   | 35.0 AH |

**Approximate Weight** ..... 58.4 lbs. (26.5 kg)

**Internal Resistance (approx.)** ..... 7.5 milliohms

**Max Discharge Current (5 Sec.)** ..... 600 amperes

**Max Short-Duration Discharge Current (0.1 Sec.)** ..... 1500 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** ..... 22.5 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-12300 | 5 min  | 10 min | 15 min | 20 min | 30 min | 45 min | 1h     | 2h    | 3h    | 4h    | 5h    | 6h    | 8h    | 10h   | 20h  |
|-----------|--------|--------|--------|--------|--------|--------|--------|-------|-------|-------|-------|-------|-------|-------|------|
| 1.85V     | 157.44 | 123.74 | 105.23 | 88.09  | 70.03  | 53.02  | 43.36  | 24.00 | 19.00 | 15.50 | 12.50 | 10.90 | 8.84  | 7.55  | 4.12 |
| 1.80V     | 211.37 | 158.13 | 127.19 | 104.07 | 82.57  | 61.64  | 48.53  | 26.20 | 20.40 | 16.60 | 13.40 | 11.70 | 9.38  | 8.00  | 4.16 |
| 1.75V     | 238.28 | 173.77 | 138.92 | 112.01 | 85.79  | 63.94  | 50.83  | 27.20 | 20.80 | 16.90 | 13.80 | 12.00 | 9.54  | 8.08  | 4.20 |
| 1.70V     | 262.43 | 189.40 | 148.35 | 117.64 | 89.24  | 66.47  | 52.44  | 28.36 | 21.40 | 17.40 | 14.10 | 12.20 | 9.67  | 8.16  | 4.28 |
| 1.67V     | 283.55 | 202.43 | 156.99 | 124.63 | 93.90  | 67.99  | 54.00  | 29.01 | 22.23 | 17.95 | 14.46 | 12.46 | 9.79  | 8.31  | 4.33 |
| 1.65V     | 289.34 | 204.47 | 157.78 | 125.01 | 94.19  | 68.19  | 54.16  | 29.10 | 22.30 | 18.00 | 14.50 | 12.50 | 9.82  | 8.33  | 4.34 |
| 1.60V     | 319.13 | 221.95 | 168.70 | 133.17 | 99.36  | 71.07  | 56.12  | 30.00 | 23.00 | 18.50 | 15.00 | 12.80 | 9.92  | 8.42  | 4.36 |
| 1.85V     | 287.84 | 228.62 | 196.42 | 165.94 | 133.40 | 101.77 | 83.60  | 46.70 | 37.00 | 30.30 | 24.50 | 21.40 | 17.40 | 14.90 | 8.16 |
| 1.80V     | 382.37 | 288.76 | 234.14 | 193.31 | 155.02 | 117.53 | 93.26  | 50.60 | 39.60 | 32.20 | 26.20 | 22.90 | 18.50 | 15.80 | 8.23 |
| 1.75V     | 421.93 | 312.22 | 252.65 | 205.96 | 159.62 | 120.75 | 97.06  | 52.30 | 40.20 | 32.80 | 26.80 | 23.40 | 18.70 | 15.90 | 8.30 |
| 1.70V     | 451.72 | 332.58 | 266.00 | 214.82 | 165.14 | 125.12 | 99.82  | 54.20 | 41.20 | 33.60 | 27.40 | 23.90 | 19.00 | 16.10 | 8.45 |
| 1.67V     | 481.23 | 352.02 | 279.20 | 225.87 | 172.33 | 126.69 | 102.16 | 55.23 | 42.67 | 34.60 | 28.02 | 24.23 | 19.14 | 16.35 | 8.52 |
| 1.65V     | 491.05 | 355.58 | 280.60 | 226.55 | 172.85 | 127.07 | 102.46 | 55.40 | 42.80 | 34.70 | 28.10 | 24.30 | 19.20 | 16.40 | 8.55 |
| 1.60V     | 529.12 | 377.32 | 295.20 | 238.62 | 181.13 | 131.79 | 105.46 | 57.00 | 43.90 | 35.60 | 28.90 | 24.80 | 19.40 | 16.50 | 8.58 |