

**PHR-12300** 12 Volt 82 AH @ 20-hr. rate  
324 W/Cell @ 15-min. rate

Rechargeable Sealed Lead Acid Battery  
PHR HIGH RATE SERIES



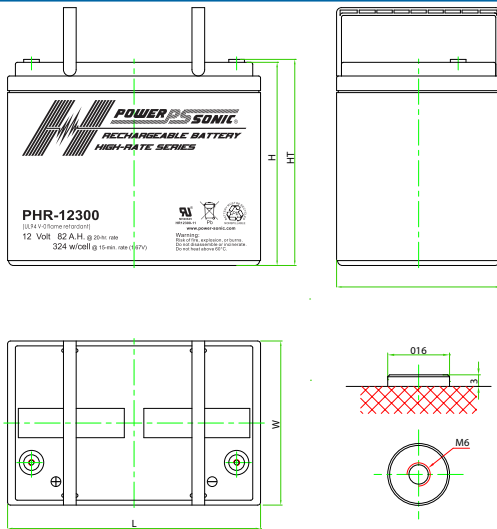
**We've Got The Power.™**



### 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-O 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

### Physical Dimensions: in (mm)



L: 10.20 (259) W: 6.61 (168) H: 8.19 (208) HT: 8.31 (211)

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

### Performance Specifications

|                                             |                                         |
|---------------------------------------------|-----------------------------------------|
| <b>Nominal Voltage</b> .....                | 12 volts (6 cells)                      |
| <b>Nominal Power (15 min.)</b> .....        | 324 W/Cell                              |
| <b>Rated Capacity</b>                       |                                         |
| 20-hr. (4.10A to 10.80 volts) .....         | 82.0 AH                                 |
| 10-hr. (8.00A to 10.50 volts) .....         | 80.0 AH                                 |
| 8-hr. (9.66A to 10.50 volts) .....          | 77.3 AH                                 |
| <b>Approximate Weight</b> .....             | 52.5 lbs. (23.8 kg)                     |
| <b>Internal Resistance (approx.)</b> .....  | 4.5 milliohms                           |
| <b>Max Discharge Current (5 Sec.)</b> ..... | 1230 amperes                            |
| <b>Charging Voltage @ 77° F (20° C)</b>     |                                         |
| <b>Standby Use</b> .....                    | 2.275 ± 0.025 V/Cell, (-3.3mV/°C/Cell)  |
| <b>Cycle Use</b> .....                      | 2.45±0.05 V/Cell, (-5 mV /°C/Cell)      |
| <b>Maximum Charging Current</b> .....       | 24.6 A                                  |
| <b>Case</b> .....                           | Flame Retardant ABS Plastic (UL 94 V-O) |

### 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     | 187.0 | 144.2  | 126.0  | 110.2  | 85.0   | 63.6   | 51.2  | 29.1 | 20.7 | 16.2 | 13.5 | 11.6 | 9.19 | 7.70 | 4.02 |
| 1.80V     | 214.5 | 158.9  | 138.1  | 118.8  | 89.5   | 65.9   | 52.9  | 30.0 | 21.4 | 16.7 | 13.9 | 12.0 | 9.46 | 7.86 | 4.10 |
| 1.75V     | 244.0 | 178.4  | 150.2  | 126.0  | 93.3   | 68.0   | 54.3  | 30.9 | 21.9 | 17.1 | 14.2 | 12.3 | 9.66 | 8.00 | 4.17 |
| 1.70V     | 268.6 | 193.4  | 160.1  | 134.1  | 98.1   | 70.9   | 55.9  | 31.4 | 22.4 | 17.6 | 14.6 | 12.5 | 9.82 | 8.14 | 4.24 |
| 1.67V     | 297.2 | 210.6  | 171.2  | 140.2  | 102.3  | 73.0   | 57.5  | 32.0 | 22.8 | 17.8 | 14.8 | 12.6 | 9.99 | 8.28 | 4.31 |
| 1.60V     | 326.7 | 227.3  | 180.7  | 147.6  | 106.3  | 75.7   | 58.8  | 32.6 | 23.1 | 18.2 | 15.1 | 12.9 | 10.2 | 8.43 | 4.36 |
| 1.85V     | 363.7 | 282.0  | 247.8  | 217.9  | 168.9  | 127.0  | 102.5 | 58.4 | 41.9 | 32.9 | 27.4 | 23.7 | 18.8 | 15.8 | 8.30 |
| 1.80V     | 413.0 | 307.7  | 269.0  | 232.7  | 176.4  | 130.6  | 105.2 | 59.9 | 42.9 | 33.7 | 28.1 | 24.3 | 19.3 | 16.1 | 8.42 |
| 1.75V     | 465.0 | 342.2  | 290.0  | 244.5  | 182.2  | 133.6  | 107.2 | 61.3 | 43.7 | 34.3 | 28.6 | 24.7 | 19.6 | 16.3 | 8.53 |
| 1.70V     | 506.0 | 366.8  | 305.4  | 257.5  | 189.6  | 137.9  | 109.5 | 61.9 | 44.4 | 34.9 | 29.1 | 25.0 | 19.8 | 16.5 | 8.61 |
| 1.67V     | 555.3 | 396.5  | 324.6  | 267.6  | 196.7  | 141.4  | 112.0 | 62.7 | 44.9 | 35.3 | 29.4 | 25.2 | 20.0 | 16.7 | 8.72 |
| 1.60V     | 603.6 | 423.4  | 339.1  | 279.0  | 202.3  | 145.1  | 113.5 | 63.3 | 45.1 | 35.7 | 29.7 | 25.5 | 20.2 | 16.8 | 8.73 |