PHR-1236 12V 8.5 AH @ 20-hr.
36 W/Cell @ 15-min.

Rechargeable Sealed Lead Acid Battery
PHR – High-Rate Series

TERMINALS: (mm)

F2: Quick disconnect tabs,
0.250” x 0.032” – Mate with
AMP/INC FASTON “250” series

DIMENSIONS: inch (mm)

L: 5.95 (151)
W: 2.56 (65)
H: 3.68 (93.5)
HT: 3.90 (99)

Tolerances are +/- 0.04 in.
(+/- 1mm) and +/- 0.08 in.
(+/- 2mm) for height dimensions. All data subject
to change without notice.

FEATURES

• Superb high-rate discharge characteristics that ensure
  reliable performance in UPS applications for up to
  10 years
• Specifically designed for UPS and critical power
  backup applications
• Valve regulated, maintenance free spill proof construction
• Precision regulated active material bonding and computer guided
  system electrolyte control for precision filling
• Patented dual-paste process for enhanced active material
  bonding and computer guided system electrolyte control for precision filling
• 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

Nominal Voltage 12 volts (6 cells)
Nominal Power (15 min.) 36 W/Cell
Rated Capacity
20-hr. (420mA to 10.80 volts) 8.5 AH
10-hr. (800mA to 10.50 volts) 8.0 AH
8-hr. (980mA to 10.50 volts) 7.8 AH
Approximate Weight 5.30 lbs. (2.40 kg)
Internal Resistance (approx.) 13.0 milliohms
Max Discharge Current (5 Sec.) 105 amperes
Shelf Life (% of nominal capacity at 68°F (20°C)
1 Month 97%
3 Month 91%
6 Month 83%
Operating Temperature Range
Charge 5°F (15°C) to 122°F (50°C)
Discharge -4°F (-20°C) to 140°F (60°C)
Case and Cover Flame Retardant ABS Plastic
UL94-V0
Power Sonic Chargers PSC-122000-PC

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PHR HIGH RATE SERIES

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PHR-1236
12V 8.5 Ah @ 20-hr.
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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

- High Rate UPS
- Data Centers

### 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.