PG-2V650 2V 646.0 AH @ 20-hr. 2V 600.0 AH @ 10-hr.

Rechargeable Sealed Lead Acid Battery
PG 2V – High Capacity Long Life Series

TERMINALS: (mm)

- T11: Threaded insert with 8mm stud fastener

DIMENSIONS: inch (mm)

- L: 11.81 (300)
- W: 6.88 (175)
- H: 12.99 (330)
- HT: 13.77 (350)

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

All data subject to change without notice.

FEATURES

- Absorbent Glass Mat (AGM) technology for superior performance
- Wide capacity range ideal for large capacity off-grid systems
- Superb high-rate discharge characteristics ensures reliable performance in UPS and telecom applications
- Proven valve regulated technology that guarantees safe operation without maintenance
- Rugged impact resistant ABS case and cover (available to UL94:V-0)
- Thick plate design and efficient gas recombination yield a design life of up to 15 years
- Excellent recovery from over discharge situations

APPROVALS

- U.L recognized
- ISO9001:2015 – Quality management systems

PERFORMANCE SPECIFICATIONS

- Nominal Voltage: 2 volts (1 cell)
- Nominal Capacity:
  - 20-hr.: 646.0 AH
  - 10-hr.: 600.0 AH
  - 5-hr.: 588.9 AH
  - 1-hr.: 372.0 AH
- Approximate Weight: 90.4 lbs. (41.0 kg)
- Internal Resistance (approx.): 0.55 milliohms
- 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: ABS Plastic

To ensure safe and efficient operation always refer to the latest edition of our Technical Manual, as published on our website. © 2018. Power-Sonic Corporation. All rights reserved. All trademarks are the property of their respective owners. All data subject to change without notice. E&O E
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

A whole range of CYCLIC applications including but not limited to:

- Telecommunications
- UPS
- Wind
- Emergency Lighting
- Solar
- Utility

FURTHER INFORMATION

Please refer to our website www.power-sonic.com for a complete range of useful downloads, such as product catalogs, material safety data sheets (MSDS), ISO certification, etc.