



LP SERIES • VRLA AGM BATTERY • MULTI-PURPOSE SERIES

LP12-9.0 (12V 9.0Ah)



| Specifications | |
|-------------------------------|--|
| Rated Voltage | 12 |
| Nominal Capacity | 9.0Ah (C ₂₀ , 1.75V/cell) |
| Dimensions | Length 151 mm |
| | Width 65 mm |
| | Container Height 94 mm |
| | Total Height 99 mm |
| Approx. Weight | 2.52 Kg (5.56 lbs) |
| Terminal | T1 |
| Layout | 3 |
| Container material | ABS |
| Rated Capacity (25°C) | 9.00 Ah (20hr, 0.450A, 1.75V/cell) |
| | 7.82 Ah (10hr, 0.851A, 1.75V/cell) |
| | 6.95 Ah (5hr, 1.55A, 1.75V/cell) |
| | 6.12 Ah (3hr, 2.30A, 1.75V/cell) |
| | 5.10 Ah (1hr, 5.98A, 1.60V/cell) |
| Max. Discharge Current | 135A (5s) |
| Internal Resistance (25°C) | Approx 17mΩ |
| | Discharge: -15°C ~50°C (5~122°F) |
| Operating Temp. Range | Charge: -20°C ~40°C (-4~104°F) |
| | Storage: -15°C ~40°C (5~104°F) |
| Nominal Operating Temp. Range | 25±3°C (77±5°F) |
| Cycle Use | Initial Charging Current less than 2.70A. Voltage 14.4V~15.0V at 25°C (77°F) Temp. Coefficient -30mV/°C |
| | Initial Charging Current less than 2.55A. Voltage 13.5V~13.8V at 25°C (77°F) Temp. Coefficient -20mV/°C |
| Standby Use | 40°C (104°F) 103% |
| | 25°C (77°F) 100% |
| Effect Of Temp. To Capacity | 0°C (32°F) 86% |
| | LP series batteries may be stored for up to 6 months at 25°C (77°F) and then a freshening charge is required. For higher temperatures the time interval will be shorter. |
| Self Discharge | |

Description and Features

The LP Series AGM batteries have been specially developed to be widely applicable. These lead acid batteries with AGM technology are completely sealed and therefore 100% maintenance free and leak-proof. These batteries have a low self-discharge. The reliable and safe multipurpose batteries from the LP Series offer a long service life and can be used in various industries.

Features

- Absorbent Glass Mat technology
- Reliable and safe performance
- Long service life - 3-5 years in standby application (at 25°C)
- Suitable for multipurpose applications

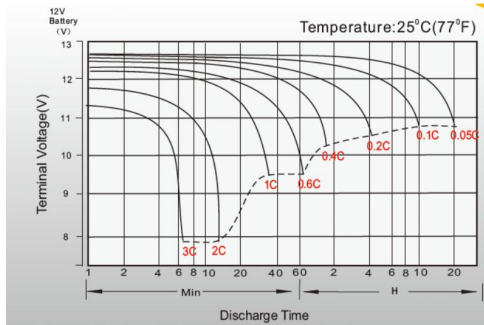
| Layout | Terminal | UL certification |
|--------|----------|------------------|
| | | |

| Constant Current Discharge Characteristics: A (25°C) | | | | | | | | | | | | | | | | |
|--|-------|--------|--------|--------|--------|--------|------|--------|------|------|------|------|------|------|-------|-------|
| F.V/Time | 5 Min | 10 Min | 15 Min | 20 Min | 30 Min | 45 Min | 1 Hr | 1.5 Hr | 2 Hr | 3 Hr | 4 Hr | 5 Hr | 6 Hr | 8 Hr | 10 Hr | 20 Hr |
| 1.85V/cell | 30.2 | 20.7 | 16.1 | 12.9 | 9.34 | 6.72 | 5.41 | 3.92 | 3.08 | 2.22 | 1.77 | 1.51 | 1.29 | 1.02 | 0.832 | 0.440 |
| 1.80V/cell | 32.4 | 21.9 | 16.9 | 13.4 | 9.63 | 6.9 | 5.54 | 4.00 | 3.14 | 2.26 | 1.80 | 1.53 | 1.31 | 1.03 | 0.843 | 0.445 |
| 1.75V/cell | 34.2 | 22.8 | 17.4 | 13.8 | 9.88 | 7.05 | 5.66 | 4.08 | 3.19 | 2.30 | 1.82 | 1.55 | 1.33 | 1.04 | 0.851 | 0.450 |
| 1.70V/cell | 35.8 | 23.7 | 18.0 | 14.2 | 10.1 | 7.21 | 5.76 | 4.15 | 3.24 | 2.33 | 1.85 | 1.57 | 1.34 | 1.05 | 0.860 | 0.454 |
| 1.67V/cell | 37.0 | 24.4 | 18.5 | 14.5 | 10.3 | 7.32 | 5.85 | 4.20 | 3.28 | 2.35 | 1.86 | 1.58 | 1.35 | 1.06 | 0.866 | 0.457 |
| 1.60V/cell | 39.3 | 25.4 | 19.1 | 14.9 | 10.6 | 7.50 | 5.98 | 4.29 | 3.34 | 2.40 | 1.90 | 1.61 | 1.37 | 1.08 | 0.877 | 0.462 |

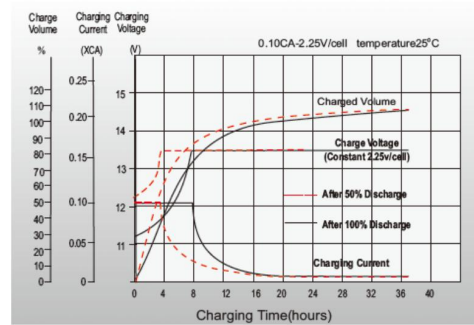
| Constant Power Discharge Characteristics: Wpc (25°C) | | | | | | | | | | | | | | | | |
|--|-------|--------|--------|--------|--------|--------|------|--------|------|------|------|------|------|------|-------|-------|
| F.V/Time | 5 Min | 10 Min | 15 Min | 20 Min | 30 Min | 45 Min | 1 Hr | 1.5 Hr | 2 Hr | 3 Hr | 4 Hr | 5 Hr | 6 Hr | 8 Hr | 10 Hr | 20 Hr |
| 1.85V/cell | 57.1 | 39.4 | 30.8 | 24.8 | 18.1 | 13.0 | 10.5 | 7.66 | 6.03 | 4.37 | 3.49 | 2.98 | 2.55 | 2.02 | 1.65 | 0.880 |
| 1.80V/cell | 60.8 | 41.4 | 32.1 | 25.7 | 18.5 | 13.3 | 10.8 | 7.79 | 6.13 | 4.43 | 3.53 | 3.02 | 2.59 | 2.04 | 1.67 | 0.890 |
| 1.75V/cell | 63.3 | 42.8 | 33.0 | 26.2 | 18.9 | 13.6 | 10.9 | 7.91 | 6.22 | 4.49 | 3.58 | 3.05 | 2.62 | 2.06 | 1.69 | 0.900 |
| 1.70V/cell | 65.7 | 44.2 | 33.9 | 26.9 | 19.3 | 13.8 | 11.1 | 8.03 | 6.30 | 4.55 | 3.62 | 3.09 | 2.64 | 2.08 | 1.71 | 0.907 |
| 1.67V/cell | 67.4 | 45.2 | 34.6 | 27.4 | 19.6 | 14.0 | 11.2 | 8.11 | 6.36 | 4.59 | 3.65 | 3.11 | 2.67 | 2.10 | 1.72 | 0.914 |
| 1.60V/cell | 70.1 | 46.5 | 35.6 | 28.0 | 20.0 | 14.3 | 11.4 | 8.3 | 6.46 | 4.66 | 3.71 | 3.15 | 2.70 | 2.13 | 1.74 | 0.924 |



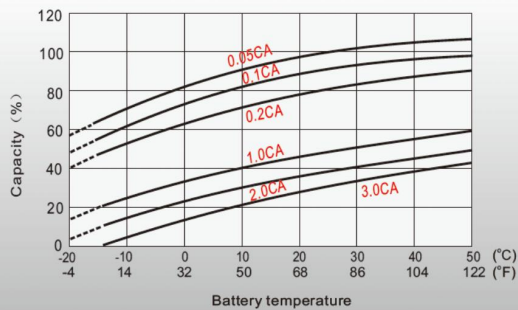
Discharge Characteristics



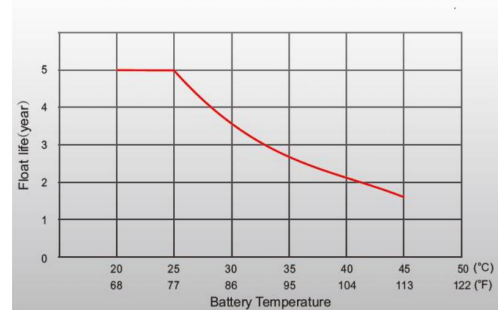
Float Charging Characteristics



Temperature Effects In Relation To Battery Capacity



Float Service Life



Applications

- All purpose
- Uninterruptable Power Supply (UPS)
- Electric Power System (EPS)
- Emergency backup power supply
- Alarm and security system
- Communication power supply
- DC power supply
- Auto control system

General Features

- 5 years design life(25°C)
- Special exhaust structure and sealing technology, safe and reliable, flexible installation, convenient maintenance
- PbCaSn alloy for plate grids: less gassing, less self-discharging
- High quality AGM separator: extend cycle life and prevent micro short circuit
- High purity raw material: ensure low self discharge rate

Standards

- Compliance with IEC 60896 standards, EU Battery Directive
- UL, CE Certified
- UKCA Certified (for UK)
- IATF16949, ISO45001, ISO 9001 and ISO 14001 certified production facilities

(Note) All above information shall be changed without prior notice, Landport Batteries reserves the right to explain and update the latest information.