



LP12-3.2 (12V 3.2Ah)

| Specifications | |
|-------------------------------|--|
| Rated Voltage | 12 |
| Nominal Capacity | 3.2Ah (C ₂₀ , 1.75V/cell) |
| Dimensions | Length 134 mm |
| | Width 67 mm |
| | Container Height 59.5 mm |
| | Total Height 65.5 mm |
| Approx. Weight | 1.35 Kg (2.98 lbs) |
| Terminal | T1 |
| Layout | 4 |
| Container material | ABS |
| Rated Capacity (25°C) | 3.20 Ah (20hr, 0.200A, 1.75V/cell) |
| | 3.31 Ah (10hr, 0.378A, 1.75V/cell) |
| | 3.01 Ah (5hr, 0.688A, 1.75V/cell) |
| | 2.62 Ah (3hr, 1.02A, 1.75V/cell) |
| | 2.15 Ah (1hr, 2.60A, 1.60V/cell) |
| Max. Discharge Current | 53A (5s) |
| Internal Resistance (25°C) | Approx 45mΩ |
| | Discharge: -15°C ~50°C (5~122°F) |
| Operating Temp. Range | Charge: 0°C ~40°C (32~104°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 1.05A. Voltage 14.4V~15.0V at 25°C (77 °F)Temp. Coefficient -30mV/°C |
| | |
| Standby Use | Initial Charging Current less than 1.05A. Voltage 13.5V~13.8V at 25°C (77 °F)Temp. Coefficient -20mV/°C |
| | 40°C (104°F) 103% |
| Effect Of Temp. To Capacity | 25°C (77°F) 100% |
| | 0°C (32°F) 86% |
| | |
| Self Discharge | 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. |



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 |
|--------|----------|
| | |
| | |

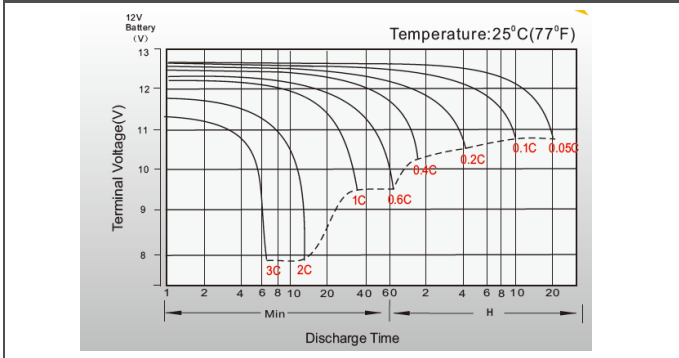
| Constant Current Discharge Characteristics: A (25°C) | | | | | | | | | | | | | | | | |
|--|-------|--------|--------|--------|--------|--------|------|--------|------|-------|-------|-------|-------|-------|-------|-------|
| F.V/Time | 5 Min | 10 Min | 15 Min | 20 Min | 30 Min | 45 Min | 1Hr | 1.5 Hr | 2 Hr | 3 Hr | 4 Hr | 5 Hr | 6 Hr | 8 Hr | 10 Hr | 20 Hr |
| 1.85V/cell | 10.6 | 7.36 | 5.72 | 4.66 | 3.43 | 2.47 | 1.94 | 1.45 | 1.15 | 0.845 | 0.681 | 0.586 | 0.502 | 0.396 | 0.323 | 0.171 |
| 1.80V/cell | 11.4 | 7.80 | 6.01 | 4.84 | 3.53 | 2.54 | 1.99 | 1.48 | 1.18 | 0.859 | 0.691 | 0.595 | 0.510 | 0.401 | 0.328 | 0.173 |
| 1.75V/cell | 12.0 | 8.11 | 6.21 | 4.98 | 3.62 | 2.59 | 2.03 | 1.50 | 1.20 | 0.872 | 0.700 | 0.602 | 0.516 | 0.406 | 0.331 | 0.175 |
| 1.70V/cell | 12.5 | 8.44 | 6.41 | 5.12 | 3.72 | 2.65 | 2.07 | 1.53 | 1.21 | 0.885 | 0.710 | 0.611 | 0.522 | 0.410 | 0.334 | 0.176 |
| 1.67V/cell | 13.0 | 8.67 | 6.57 | 5.23 | 3.78 | 2.69 | 2.10 | 1.55 | 1.23 | 0.894 | 0.717 | 0.616 | 0.527 | 0.413 | 0.337 | 0.178 |
| 1.60V/cell | 13.8 | 9.04 | 6.80 | 5.38 | 3.88 | 2.76 | 2.15 | 1.58 | 1.25 | 0.910 | 0.729 | 0.626 | 0.534 | 0.419 | 0.341 | 0.180 |

| Constant Power Discharge Characteristics: Wpc (25°C) | | | | | | | | | | | | | | | | |
|--|-------|--------|--------|--------|--------|--------|------|--------|------|------|------|------|------|-------|-------|-------|
| F.V/Time | 5 Min | 10 Min | 15 Min | 20 Min | 30 Min | 45 Min | 1Hr | 1.5 Hr | 2 Hr | 3 Hr | 4 Hr | 5 Hr | 6 Hr | 8 Hr | 10 Hr | 20 Hr |
| 1.85V/cell | 20.0 | 14.0 | 11.0 | 8.97 | 6.62 | 4.79 | 3.78 | 2.82 | 2.26 | 1.66 | 1.34 | 1.16 | 0.99 | 0.784 | 0.643 | 0.342 |
| 1.80V/cell | 21.3 | 14.7 | 11.4 | 9.28 | 6.80 | 4.90 | 3.86 | 2.87 | 2.29 | 1.68 | 1.36 | 1.17 | 1.01 | 0.795 | 0.651 | 0.346 |
| 1.75V/cell | 22.2 | 15.2 | 11.7 | 9.48 | 6.94 | 4.99 | 3.93 | 2.92 | 2.33 | 1.71 | 1.38 | 1.19 | 1.02 | 0.803 | 0.657 | 0.350 |
| 1.70V/cell | 23.0 | 15.7 | 12.1 | 9.70 | 7.09 | 5.08 | 3.99 | 2.96 | 2.36 | 1.73 | 1.39 | 1.20 | 1.03 | 0.810 | 0.663 | 0.353 |
| 1.67V/cell | 23.6 | 16.1 | 12.3 | 9.88 | 7.20 | 5.15 | 4.04 | 2.99 | 2.38 | 1.74 | 1.40 | 1.21 | 1.04 | 0.816 | 0.668 | 0.356 |
| 1.60V/cell | 24.6 | 16.5 | 12.7 | 10.1 | 7.36 | 5.24 | 4.11 | 3.04 | 2.42 | 1.77 | 1.42 | 1.23 | 1.05 | 0.827 | 0.675 | 0.359 |

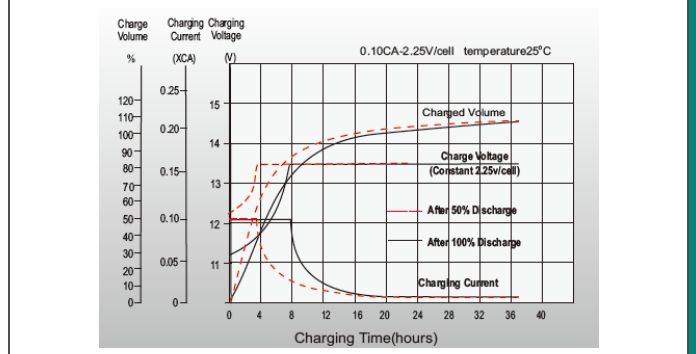


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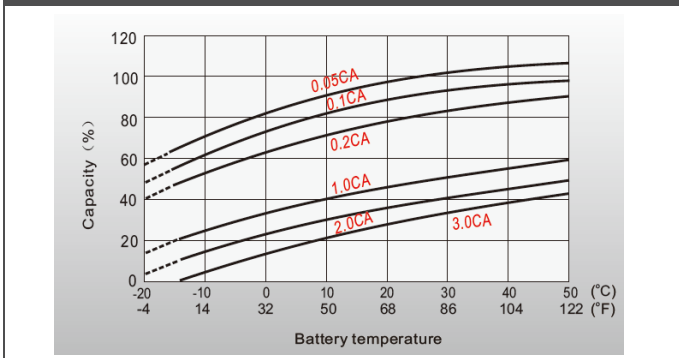
Discharge Characteristics



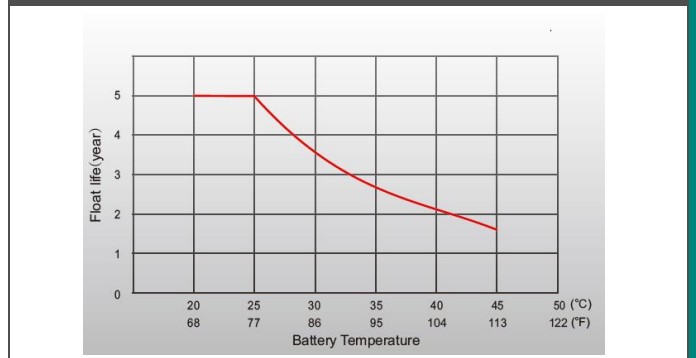
Float Charging Characteristics



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
- 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.