



LP6-4.5 (6V 4.5Ah)

| Specifications | |
|-------------------------------|--|
| Rated Voltage | 6 |
| Nominal Capacity | 4.5 Ah (C ₂₀ , 1.75V/cell) |
| Dimensions | Length 70 mm |
| | Width 47 mm |
| | Container Height 100 mm |
| | Total Height 106 mm |
| Approx. Weight | 0.81 Kg (1.79lbs) |
| Terminal | T1 |
| Layout | 5 |
| Container material | ABS |
| Rated Capacity (25°C) | 4.50 Ah (20hr, 0.225A, 1.75V/cell) |
| | 4.26 Ah (10hr, 0.426A, 1.75V/cell) |
| | 3.84 Ah (5hr, 0.768A, 1.75V/cell) |
| | 3.36 Ah (3hr, 1.12A, 1.75V/cell) |
| | 2.80 Ah (1hr, 2.80A, 1.60V/cell) |
| Max. Discharge Current | 68A (5s) |
| Internal Resistance (25°C) | Approx 25mΩ |
| | 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 1.35A. Voltage 7.2V~7.5V at 25°C (77 °F)Temp. Coefficient -15mV/°C |
| | |
| Standby Use | Initial Charging Current less than 1.35A. Voltage 6.75V~6.9V at 25°C (77 °F)Temp. Coefficient -10mV/°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 |
|--------|----------|
| | |
| | |

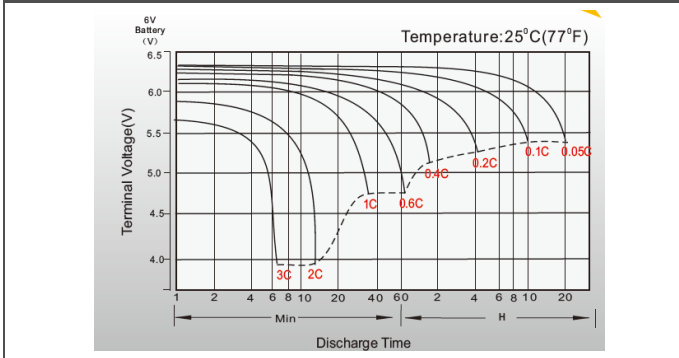
| Constant Current Discharge Characteristics: A (25°C) | | | | | | | | | | | | | | | | |
|--|-------|--------|--------|--------|--------|--------|------|-------|------|------|-------|-------|-------|-------|-------|-------|
| F.V/Time | 5 Min | 10 Min | 15 Min | 20 Min | 30 Min | 45 Min | 1Hr | 1.5Hr | 2 Hr | 3 Hr | 4 Hr | 5 Hr | 6 Hr | 8 Hr | 10 Hr | 20 Hr |
| 1.85V/cell | 12.8 | 8.74 | 6.97 | 5.67 | 4.19 | 3.08 | 2.53 | 1.87 | 1.49 | 1.09 | 0.876 | 0.747 | 0.646 | 0.509 | 0.416 | 0.220 |
| 1.80V/cell | 13.7 | 9.27 | 7.31 | 5.89 | 4.32 | 3.16 | 2.60 | 1.91 | 1.51 | 1.11 | 0.889 | 0.758 | 0.656 | 0.516 | 0.421 | 0.223 |
| 1.75V/cell | 14.4 | 9.64 | 7.55 | 6.06 | 4.43 | 3.23 | 2.65 | 1.95 | 1.54 | 1.12 | 0.901 | 0.768 | 0.663 | 0.522 | 0.426 | 0.225 |
| 1.70V/cell | 15.1 | 10.0 | 7.81 | 6.23 | 4.55 | 3.30 | 2.70 | 1.98 | 1.56 | 1.14 | 0.913 | 0.778 | 0.671 | 0.527 | 0.430 | 0.227 |
| 1.67V/cell | 15.7 | 10.3 | 8.00 | 6.36 | 4.63 | 3.36 | 2.74 | 2.01 | 1.58 | 1.15 | 0.922 | 0.785 | 0.677 | 0.531 | 0.433 | 0.229 |
| 1.60V/cell | 16.6 | 10.7 | 8.27 | 6.55 | 4.75 | 3.44 | 2.80 | 2.05 | 1.61 | 1.17 | 0.938 | 0.797 | 0.687 | 0.539 | 0.439 | 0.231 |

| Constant Power Discharge Characteristics: Wpc (25°C) | | | | | | | | | | | | | | | | |
|--|-------|--------|--------|--------|--------|--------|------|-------|------|------|------|------|------|------|-------|-------|
| F.V/Time | 5 Min | 10 Min | 15 Min | 20 Min | 30 Min | 45 Min | 1Hr | 1.5Hr | 2 Hr | 3 Hr | 4 Hr | 5 Hr | 6 Hr | 8 Hr | 10 Hr | 20 Hr |
| 1.85V/cell | 24.1 | 16.6 | 13.3 | 10.9 | 8.10 | 5.97 | 4.93 | 3.66 | 2.91 | 2.14 | 1.73 | 1.48 | 1.28 | 1.01 | 0.826 | 0.440 |
| 1.80V/cell | 25.7 | 17.5 | 13.9 | 11.3 | 8.32 | 6.11 | 5.03 | 3.72 | 2.96 | 2.17 | 1.75 | 1.49 | 1.30 | 1.02 | 0.837 | 0.445 |
| 1.75V/cell | 26.8 | 18.1 | 14.3 | 11.5 | 8.49 | 6.22 | 5.12 | 3.78 | 3.00 | 2.20 | 1.77 | 1.51 | 1.31 | 1.03 | 0.844 | 0.450 |
| 1.70V/cell | 27.8 | 18.7 | 14.7 | 11.8 | 8.67 | 6.34 | 5.19 | 3.83 | 3.04 | 2.23 | 1.79 | 1.53 | 1.32 | 1.04 | 0.853 | 0.454 |
| 1.67V/cell | 28.5 | 19.1 | 15.0 | 12.0 | 8.80 | 6.42 | 5.26 | 3.88 | 3.07 | 2.25 | 1.80 | 1.54 | 1.33 | 1.05 | 0.858 | 0.457 |
| 1.60V/cell | 29.6 | 19.7 | 15.4 | 12.3 | 9.00 | 6.54 | 5.36 | 3.94 | 3.12 | 2.28 | 1.83 | 1.56 | 1.35 | 1.06 | 0.868 | 0.462 |

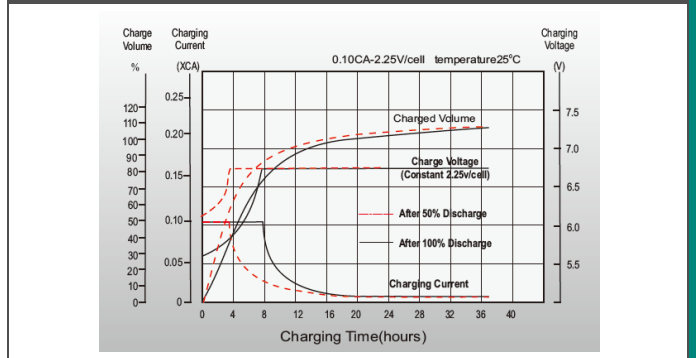


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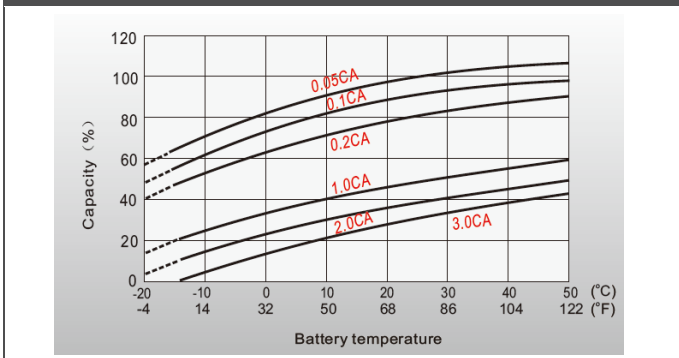
Discharge Characteristics



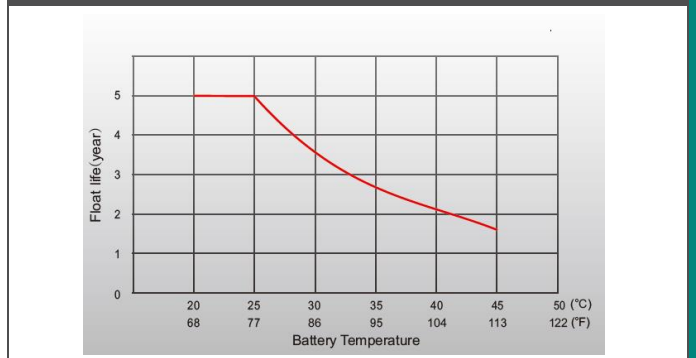
Float Charging Characteristics



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.