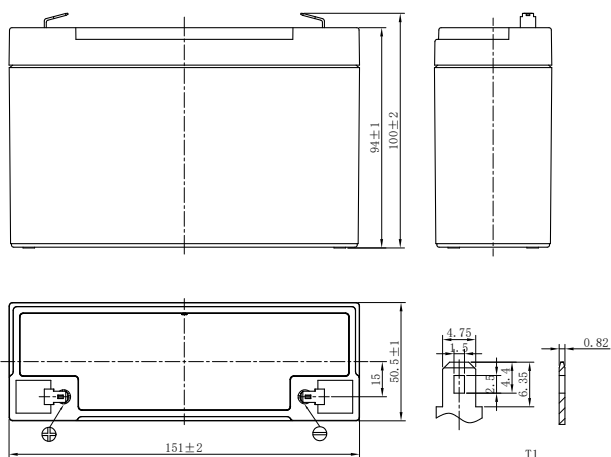


LP SERIES-GENERAL PURPOSE

LP6-10 (6V10Ah)



CHARACTERISTICS

| Item | Specifications | |
|-------------------------------|--|---------------------|
| Rated Voltage | 6V | |
| Nominal Capacity (25°C) | C ₂₀ , 1.75V/cell | 10Ah |
| Dimension | Length | 151mm (5.94inches) |
| | Width | 50.5mm (1.99inches) |
| | Container Height | 94mm (3.70inches) |
| | Total Height | 100mm (3.94inches) |
| Approx Weight | 1.54kg (3.40lbs) | |
| Terminal | T1/T2 | |
| Container Material | ABS (UL94 HB or V-0 optional) | |
| Short-circuit current | 280A | |
| Internal Resistance (25°C) | Approx 11 mΩ (Fully charged) | |
| Operating Temp. Range | Discharge | -15~50°C (5~122°F) |
| | Charge | -20~40°C (-4~104°F) |
| | Storage | -15~40°C (5~104°F) |
| Nominal Operating Temp. Range | 25±3°C (77±5°F) | |
| Max. Charging Current (25°C) | 0.3C | |
| Charge voltage (25°C) | Standby Use | Cycle Use |
| | 2.25-2.30V/cell | 2.35-2.45V/cell |
| Temp. Coefficient | -3mV/cell/°C | -5mV/cell/°C |
| | 40°C (104°F) | 103% |
| Effect of temp. to Capacity | 25°C (77°F) | 100% |
| | 0°C (32°F) | 86% |
| | ≤3% per month at 25°C (77°F). LP series batteries may be stored 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 | | |

DISCHARGE TABLE

| Constant Current Discharge (Amperes) at 25°C (77°F) | | | | | | | | | | | | | | | | |
|--|------|-------|-------|-------|-------|-------|------|------|------|------|------|------|------|------|-------|-------|
| F.V/Time | 5min | 10min | 15min | 20min | 30min | 45min | 1h | 1.5h | 2h | 3h | 4h | 5h | 6h | 8h | 10h | 20h |
| 1.85V/cell | 27.2 | 20.0 | 15.9 | 13.0 | 9.64 | 7.07 | 5.78 | 4.35 | 3.41 | 2.45 | 1.95 | 1.66 | 1.42 | 1.11 | 0.910 | 0.490 |
| 1.80V/cell | 29.5 | 21.0 | 16.5 | 13.4 | 9.88 | 7.21 | 5.89 | 4.43 | 3.46 | 2.49 | 1.98 | 1.68 | 1.44 | 1.13 | 0.921 | 0.495 |
| 1.75V/cell | 31.9 | 22.1 | 17.1 | 13.8 | 10.1 | 7.36 | 6.00 | 4.50 | 3.52 | 2.53 | 2.00 | 1.70 | 1.46 | 1.14 | 0.932 | 0.500 |
| 1.70V/cell | 34.3 | 23.1 | 17.7 | 14.2 | 10.3 | 7.50 | 6.10 | 4.57 | 3.57 | 2.56 | 2.03 | 1.72 | 1.48 | 1.16 | 0.943 | 0.505 |
| 1.67V/cell | 35.7 | 23.7 | 18.1 | 14.4 | 10.5 | 7.59 | 6.16 | 4.62 | 3.61 | 2.58 | 2.05 | 1.74 | 1.49 | 1.17 | 0.950 | 0.508 |
| 1.60V/cell | 38.9 | 25.2 | 18.9 | 15.0 | 10.8 | 7.79 | 6.31 | 4.72 | 3.68 | 2.64 | 2.09 | 1.77 | 1.51 | 1.18 | 0.965 | 0.516 |
| Constant Power Discharge (Watts/cell) at 25°C (77°F) | | | | | | | | | | | | | | | | |
| F.V/Time | 5min | 10min | 15min | 20min | 30min | 45min | 1h | 1.5h | 2h | 3h | 4h | 5h | 6h | 8h | 10h | 20h |
| 1.85V/cell | 51.7 | 38.3 | 30.5 | 24.9 | 18.6 | 13.7 | 11.2 | 8.50 | 6.68 | 4.82 | 3.84 | 3.27 | 2.81 | 2.21 | 1.81 | 0.980 |
| 1.80V/cell | 55.8 | 40.0 | 31.5 | 25.6 | 19.0 | 13.9 | 11.4 | 8.62 | 6.76 | 4.88 | 3.89 | 3.31 | 2.84 | 2.24 | 1.83 | 0.990 |
| 1.75V/cell | 59.8 | 41.7 | 32.5 | 26.2 | 19.4 | 14.2 | 11.6 | 8.73 | 6.85 | 4.94 | 3.94 | 3.35 | 2.87 | 2.26 | 1.85 | 1.00 |
| 1.70V/cell | 63.9 | 43.5 | 33.5 | 26.9 | 19.7 | 14.4 | 11.7 | 8.85 | 6.94 | 5.00 | 3.98 | 3.39 | 2.91 | 2.29 | 1.87 | 1.01 |
| 1.67V/cell | 66.3 | 44.5 | 34.1 | 27.3 | 20.0 | 14.5 | 11.8 | 8.92 | 6.99 | 5.04 | 4.01 | 3.41 | 2.92 | 2.30 | 1.88 | 1.02 |
| 1.60V/cell | 71.5 | 46.8 | 35.4 | 28.2 | 20.5 | 14.8 | 12.1 | 9.08 | 7.11 | 5.12 | 4.07 | 3.47 | 2.97 | 2.34 | 1.91 | 1.03 |

LP SERIES-GENERAL PURPOSE

LP6-10 (6V10Ah)



APPLICATIONS

- 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

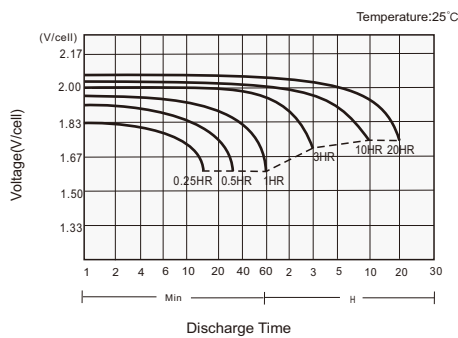
GENERAL FEATURES

- 5 years design life (25°C)
- Lead calcium alloy, sealed design, no watering required
- Puncture resistant micro-porous glass mat separators extend life
- Unique technology optimizes power capacity, cell consistency, and long-term reliability
- Designed for a wide range of applications

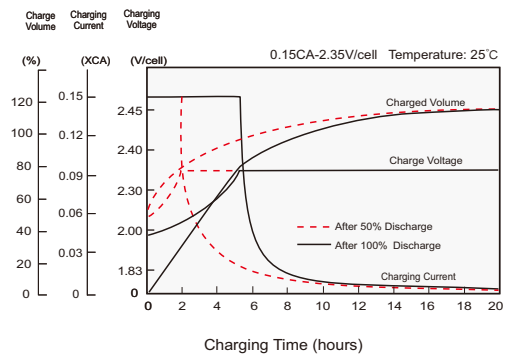
STANDARDS

- Compliance with IEC 60896 standards, EU Battery Directive
- UL, CE Approved
- Manufactured in Leoch@IATF 16949, ISO 45001, ISO 9001 and ISO 14001 certified production facilities

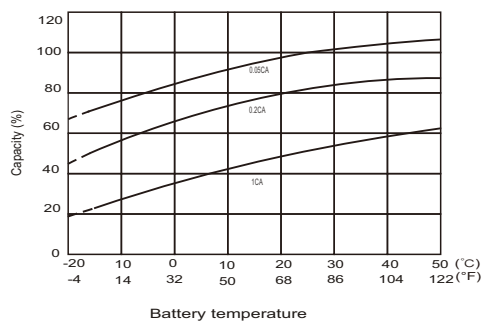
Discharge Characteristics



Charging Characteristics



Effects of Temperature on Capacity



Self Discharge Characteristics

