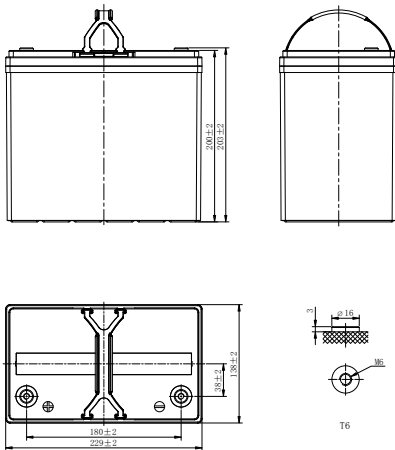


XP SERIES-ULTRA HIGH RATE XP12-240 (12V240W)

CONVEREX BATTERY



CHARACTERISTICS

| Item | Specifications | |
|-------------------------------|-------------------------------|------------------------------|
| Rated Voltage | 12V | |
| Nominal Rate (25°C) | W ₁₅ , 1.67V/cell | 240.8W/cell |
| Nominal Capacity (25°C) | C ₂₀ , 1.60V/cell | 60Ah |
| Dimension | Length | 229mm (9.02inches) |
| | Width | 138mm (5.43inches) |
| | Container Height | 200mm (7.87inches) |
| | Total Height | 203mm (7.99inches) |
| Approx Weight | 17.7kg (39.0lbs) | |
| Terminal | T6(M6) | |
| Container Material | ABS (UL94 HB or V-0 optional) | |
| Short-circuit current | 1262.4A | |
| Internal Resistance (25°C) | Approx 5 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) | 0.25C | |
| Charge voltage (25°C) | Standby Use | Equalization Use |
| | 2.25-2.30V/cell | 2.30-2.40V/cell |
| Temp. Coefficient | -3mV/cell/°C | |
| | 40°C (104°F) | 106% |
| Effect of temp. to Capacity | 25°C (77°F) | 100% |
| | 0°C (32°F) | 86% |
| | Self Discharge | ≤3% per month at 25°C (77°F) |

DISCHARGE TABLE

| Constant Current Discharge (Amperes) at 25°C (77°F) | | | | | | | | | | | | | | | |
|--|-------|-------|-------|-------|-------|-------|------|------|------|------|------|------|------|------|------|
| F.V/Time | 5min | 10min | 15min | 20min | 30min | 45min | 1h | 2h | 3h | 4h | 5h | 6h | 8h | 10h | 20h |
| 1.85V/cell | 147.1 | 107.6 | 90.4 | 74.4 | 59.7 | 42.6 | 34.1 | 19.2 | 13.7 | 10.8 | 8.99 | 7.75 | 6.16 | 5.13 | 2.64 |
| 1.80V/cell | 175.1 | 122.4 | 102.4 | 81.9 | 64.2 | 45.2 | 35.9 | 20.0 | 14.2 | 11.2 | 9.28 | 7.97 | 6.33 | 5.26 | 2.75 |
| 1.75V/cell | 202.2 | 135.5 | 110.6 | 87.7 | 67.2 | 47.3 | 37.1 | 20.6 | 14.6 | 11.4 | 9.47 | 8.13 | 6.45 | 5.36 | 2.81 |
| 1.70V/cell | 219.3 | 147.6 | 118.6 | 93.2 | 70.6 | 48.9 | 38.4 | 21.0 | 15.0 | 11.7 | 9.69 | 8.32 | 6.59 | 5.45 | 2.86 |
| 1.67V/cell | 237.5 | 156.0 | 127.0 | 98.1 | 73.1 | 50.6 | 39.5 | 21.6 | 15.2 | 11.9 | 9.88 | 8.49 | 6.71 | 5.56 | 2.91 |
| 1.60V/cell | 255.6 | 166.8 | 132.4 | 102.2 | 75.7 | 52.4 | 40.8 | 22.0 | 15.5 | 12.2 | 10.1 | 8.73 | 6.88 | 5.68 | 2.99 |
| Constant Power Discharge (Watts/cell) at 25°C (77°F) | | | | | | | | | | | | | | | |
| F.V/Time | 5min | 10min | 15min | 20min | 30min | 45min | 1h | 2h | 3h | 4h | 5h | 6h | 8h | 10h | 20h |
| 1.85V/cell | 286.3 | 210.7 | 177.9 | 147.0 | 118.6 | 85.2 | 68.2 | 38.5 | 27.7 | 21.9 | 18.3 | 15.8 | 12.6 | 10.5 | 5.46 |
| 1.80V/cell | 336.9 | 237.0 | 199.4 | 160.4 | 126.3 | 89.6 | 71.3 | 39.9 | 28.6 | 22.5 | 18.8 | 16.2 | 12.9 | 10.8 | 5.65 |
| 1.75V/cell | 385.5 | 259.9 | 213.5 | 170.1 | 131.3 | 92.7 | 73.4 | 41.0 | 29.2 | 22.9 | 19.0 | 16.4 | 13.1 | 10.9 | 5.75 |
| 1.70V/cell | 413.0 | 280.0 | 226.2 | 179.0 | 136.5 | 95.1 | 75.3 | 41.4 | 29.7 | 23.3 | 19.3 | 16.7 | 13.3 | 11.0 | 5.81 |
| 1.67V/cell | 443.8 | 293.8 | 240.8 | 187.2 | 140.6 | 98.0 | 77.1 | 42.3 | 30.0 | 23.6 | 19.6 | 16.9 | 13.4 | 11.2 | 5.89 |
| 1.60V/cell | 472.3 | 310.7 | 248.5 | 193.1 | 144.2 | 100.4 | 78.9 | 42.7 | 30.4 | 24.0 | 20.0 | 17.2 | 13.6 | 11.3 | 5.98 |

XP SERIES-ULTRA HIGH RATE XP12-240 (12V240W)

CONVEREX BATTERY

APPLICATIONS

- UPS
- Hospitals and Testing Laboratories
- Emergency Power Supply
- Electric starting
- Telecommunications
- Data Centers

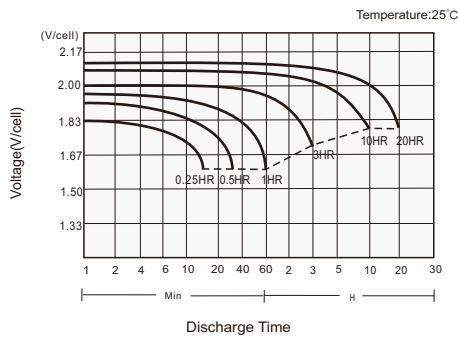
GENERAL FEATURES

- 12 years design life (25°C)
- Excellent high current performance - optimised for short discharge time
- Advanced AGM technology for superior high-rate power
- Long Life Alloy - minimizing grid growth, reducing gassing and extending battery life
- Epoxy-sealed posts eliminate leaks
- Optimal energy density - saves floor space

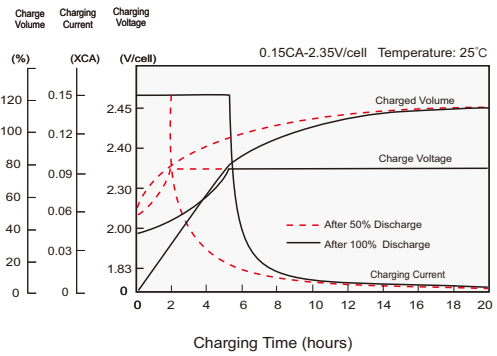
STANDARDS

- Compliance with IEC 60896 standards
- Classified as "Long Life" according to Eurobat
- CE,UL Approved
- Manufactured in IATF 16949, ISO 45001,ISO 9001 and ISO 14001 certified production facilities

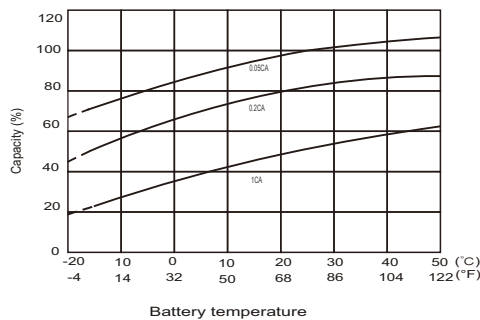
Discharge Characteristics



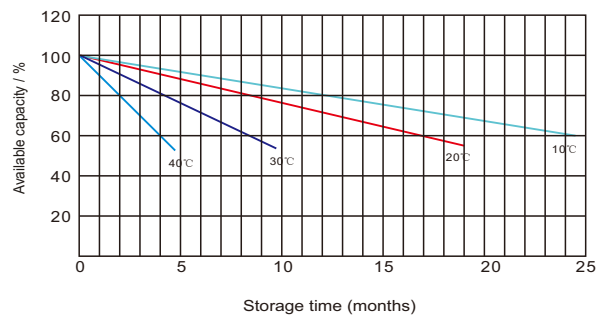
Charging Characteristics



Effects of Temperature on Capacity



Self Discharge Characteristics



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