



XTV Series

XTV121000 Datasheet

12V Top Terminal VRLA-AGM



Valve Regulated Lead Acid (VRLA) Battery

Maintenance-Free, Absorbent Glass Mat (AGM) Technology for Efficient Gas Recombination of up to 99%

Pure Lead Construction and Proprietary Elements

Designed for Float Service Standby Power Applications in Extreme Temperature Environments

Built in Accordance with IEC 60896-21/22:2004, UL1973 Listed (MH66728) and UL1989 Recognized (MH14533)

Certified by TUV NORD according to ISO 9001:2015



Specifications

| | |
|-------------------------------------|--|
| Voltage (Vdc) | 12 |
| Ah Capacity (8-Hr 1.75 VPC @ 25°C) | 90.4 |
| Ah Capacity (20-Hr 1.75 VPC @ 25°C) | 100 |
| Ah Capacity (8-Hr 1.80 VPC @ 25°C) | 89.7 |
| Max Charge Current (A) | 30 |
| Max Discharge Current (A) | 800 (5sec) |
| Short Circuit Current (A) | 2258 (5 sec) |
| Internal Resistance (mΩ) | Approx. 4.10 |
| Terminal Type | I2 thread lead alloy terminal to accept M6 bolt |
| Terminal Torque | 51.7±10.3 Kgf·cm / 44.9±9.0 Lbf·in / 5.1±1.0 N·m |
| Container Material | PP (UL 94-HB) & Flame Retardant (94-V0) available upon request |
| Weight (kg. / lb.) | 30.20 / 66.56 |
| Length (L) (mm / in) | 308.7±2.5 / 12.15±0.10 |
| Width (W) (mm / in) | 169.0±2.0 / 6.65±0.08 |
| Height (H) (mm / in) | 213.6±2.5 / 8.41±0.10 |
| Design Life | Up to 12 Years in Standby Service at 25°C. Eurobat (20°C): >12 Years Very Long Life |
| Operating Temperature | Nominal: 25°C (77°F) Discharge: -15°C - 50°C (5°F-122°F) Charge/Storage: -15°C - 40°C (5°F - 104°F) |
| Float Charging Voltage | 13.5 - 13.8 Vdc/battery 25°C (77°F) |
| Eq. Charging Voltage | 14.4 - 15.0 Vdc/battery 25°C (77°F) |
| Self-Discharge | Less than 10% after 90 days, can be stored up to 6 months and 10 months with equalization charge* at 25C (77F); Full recharging is required before usage, and charged sooner if stored at higher temperature than 25C (77F). |



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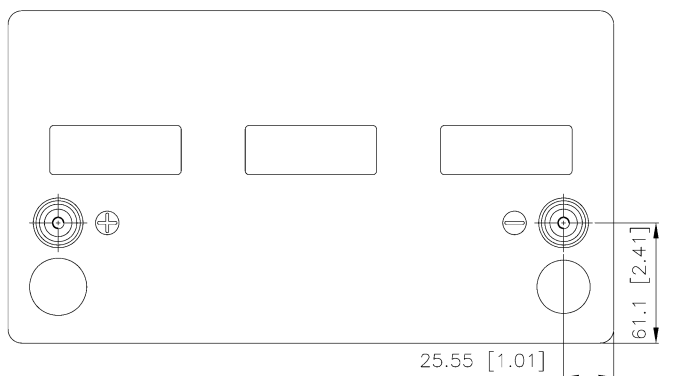
12V Top Terminal VRLA-AGM

Constant Current Discharge Characteristics Per Battery: Amperes (25°C, 77°F)

| F.V/Time | 30MIN | 60MIN | 90MIN | 2HR | 3HR | 5HR | 8HR | 10HR | 12HR | 20HR | 24HR | 48HR |
|------------------|-------|-------|-------|------|------|------|------|------|------|------|------|------|
| 10.02V (1.67VPC) | 114 | 67.2 | 48.7 | 38.4 | 27.4 | 17.5 | 11.5 | 9.47 | 8.01 | 5.02 | 4.23 | 2.19 |
| 10.50V (1.75VPC) | 110 | 65.5 | 47.7 | 37.6 | 26.9 | 17.3 | 11.3 | 9.38 | 7.95 | 5.00 | 4.22 | 2.18 |
| 10.80V (1.80VPC) | 104 | 63.0 | 46.3 | 36.5 | 26.1 | 16.8 | 11.2 | 9.16 | 7.75 | 4.84 | 4.08 | 2.11 |

Constant Power Discharge Characteristics Per Battery: Watts (25°C, 77°F)

| F.V/Time | 30MIN | 60MIN | 90MIN | 2HR | 3HR | 5HR | 8HR | 10HR | 12HR | 20HR | 24HR | 48HR |
|------------------|-------|-------|-------|-----|-----|-----|-----|------|------|------|------|------|
| 10.02V (1.67VPC) | 1286 | 775 | 567 | 447 | 321 | 210 | 137 | 113 | 95.3 | 59.6 | 50.3 | 26.0 |
| 10.50V (1.75VPC) | 1245 | 761 | 557 | 440 | 316 | 207 | 135 | 111 | 93.8 | 59.0 | 49.8 | 25.8 |
| 10.80V (1.80VPC) | 1192 | 735 | 545 | 429 | 308 | 203 | 133 | 110 | 93.0 | 58.1 | 49.0 | 25.3 |



Detail A Drawing(4:1)

