



EVX Series

EVX 12120 Datasheet

12V Top Terminal VRLA-AGM

Specifications

| | |
|-------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Voltage (Vdc) | 12 |
| Nominal Capacity (1.75 VPC @ 25°C) | 12 Ah @20hr-rate |
| Ah Capacity (8-Hr 1.75 VPC @ 25°C) | 10.64 |
| Ah Capacity (20-Hr 1.75 VPC @ 25°C) | 12.00 |
| Ah Capacity (8-Hr 1.80 VPC @ 25°C) | 10.56 |
| Max Charge Current (A) | 3.60 |
| Max Discharge Current (A) | 180 * |
| Short Circuit Current (A) | 464 |
| Internal Resistance (mΩ) | Approx. 15.4 |
| Terminal Type | F2 terminal -Faston Tab 250 * |
| Terminal Torque | -- |
| Container Material | ABS (UL 94-HB) |
| Weight (kg. / lb., Approx.) | 3.83 / 8.44 |
| Length (L) (mm / in) | 151.0±2.0 / 5.94±0.08 |
| Width (W) (mm / in) | 98.0±1.0 / 3.86±0.04 |
| Height (H) (mm / in) | 100.3±1.5 / 3.95±0.06 |
| Design Life | 400 cycles @ 100%DOD at 25°C 1800 cycles @ 30%DOD at 25°C |
| 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 | -- |
| 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 at 25°C (77°F); Fully recharging is required before usage, and charged sooner if stored at higher temperature than 25°C (77°F). |



Valve Regulated Lead Acid (VRLA) Battery

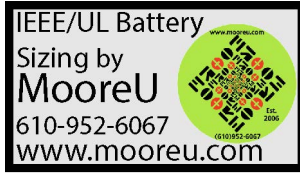
Maintenance-Free, Absorbent Glass Mat (AGM) Technology for Efficient Gas Recombination of up to 99%

Pure Lead Construction and Proprietary Elements

Designed for E-mobility or deep cycling applications

Built in Accordance with IEC 60254-1:2005 / IEC60254-2:2008 and UL1989 Recognized (MH14533)





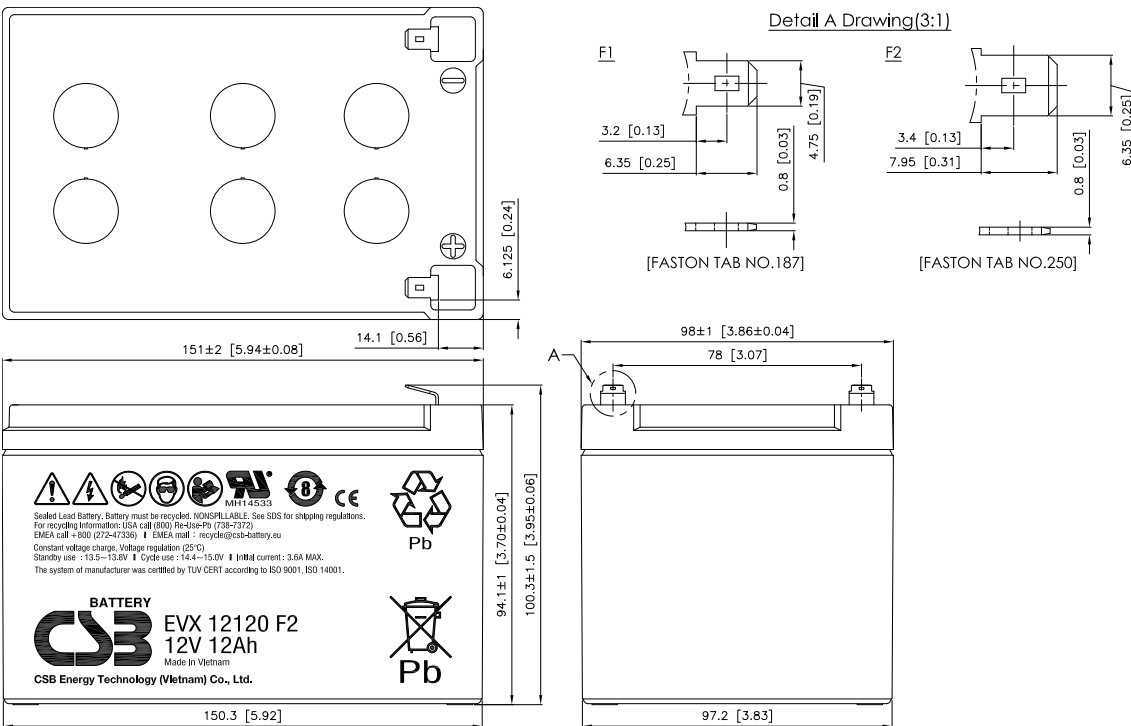
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| Constant Current Discharge Characteristics Unit: A (25°C, 77°F) | | | | | | | | | | | | |
|-----------------------------------------------------------------|-------|-------|-------|-------|------|------|------|------|------|------|------|------|
| F.V/Time | 30MIN | 45MIN | 60MIN | 90MIN | 2HR | 3HR | 4HR | 5HR | 6HR | 8HR | 10HR | 20HR |
| 10.02V (1.67 VPC) | 12.7 | 9.30 | 7.45 | 5.45 | 4.29 | 3.10 | 2.44 | 2.05 | 1.74 | 1.35 | 1.12 | 0.63 |
| 10.50V (1.75 VPC) | 12.4 | 9.14 | 7.36 | 5.36 | 4.25 | 3.07 | 2.41 | 2.01 | 1.71 | 1.33 | 1.09 | 0.60 |
| 10.80V (1.80 VPC) | 12.0 | 8.89 | 7.18 | 5.28 | 4.17 | 3.00 | 2.38 | 1.99 | 1.70 | 1.32 | 1.07 | 0.59 |

| Constant Power Discharge Characteristics Unit: W (25°C, 77°F) | | | | | | | | | | | | |
|---------------------------------------------------------------|-------|-------|-------|-------|------|------|------|------|------|------|------|------|
| F.V/Time | 30MIN | 45MIN | 60MIN | 90MIN | 2HR | 3HR | 4HR | 5HR | 6HR | 8HR | 10HR | 20HR |
| 10.02V (1.67 VPC) | 146 | 107 | 85.7 | 62.9 | 50.1 | 36.6 | 29.1 | 24.3 | 20.7 | 16.1 | 13.3 | 7.09 |
| 10.50V (1.75 VPC) | 143 | 105 | 84.9 | 62.3 | 49.5 | 36.2 | 28.8 | 23.9 | 20.4 | 15.9 | 13.1 | 7.01 |
| 10.80V (1.80 VPC) | 140 | 103 | 83.5 | 61.2 | 49.0 | 35.7 | 28.5 | 23.7 | 20.2 | 15.7 | 12.9 | 6.87 |



* F1 terminal is available, Max Discharge Current = 150 A (5sec)

