



EVX series

EVX 12400 12V 40AH



Valve Regulated Lead Acid Battery

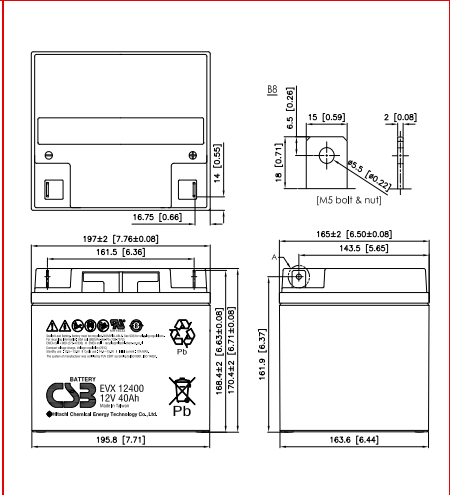
Maintenance-Free Sealed Lead Acid Battery.
Absorbent Glass Mat (AGM) technology for efficient gas recombination of up to 99%.

Design for Cyclic Applications

| | |
|---|--|
| <p>【Design Life】 400 cycles @ 100%DOD at 25°C 1800 cycles @ 30%DOD at 25°C</p> <p>【Operating Temperature Range】 Nominal Operating Temperature : 25°C (77°F) Discharge : -15°C ~ 50°C (5°F~122°F) Charge: -15°C ~ 40°C (5°F~104°F) Storage: -15°C ~ 40°C (5°F~104°F)</p> | <p>【Equalization Charging Voltage】 14.4 ~ 15.0 VDC/Unit at 25°C (77°F)</p> <p>【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).</p> |
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Specification

| | | | |
|---------------------------|---|--------------|----------------|
| Nominal Voltage | 12V (6 cells per unit) | | |
| Nominal Capacity | 40 AH @20HR-rate to 1.75V per cell @25°C (77°F) | | |
| Weight | Approx. 13.20 Kg (29.07 lbs) | | |
| Maximum Discharge Current | 400A (5sec) | | |
| Internal Resistance | Approx. 8.2 mΩ | | |
| Short Circuit Current | -- | | |
| Maximum Charge Current | 12.00A | | |
| Terminal types | B8 (I2) terminal to accept M5 (M6) bolt | | |
| Terminal Breaking Torque | 59 (138.6) Kg·cm / 51 (120.3) lbf·in / 5.73 (13.58) N·m | | |
| Container Material | ABS (UL 94-HB) | | |
| Dimensions | Length (L) | 197.0±2.0 mm | 7.76±0.08 inch |
| | Width (W) | 165.0±2.0 mm | 6.50±0.06 inch |
| | Container Height (h) | 170.4±2.0 mm | 6.71±0.08 inch |
| | Overall Height (H) | 170.4±2.0 mm | 6.71±0.08 inch |



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 |
|----------|-------|-------|-------|-------|------|------|------|------|------|------|------|------|
| 1.60V | 38.1 | 28.3 | 22.9 | 16.8 | 13.4 | 9.75 | 7.76 | 6.42 | 5.50 | 4.31 | 3.59 | 2.17 |
| 1.67V | 37.0 | 27.5 | 22.3 | 16.3 | 13.0 | 9.47 | 7.52 | 6.24 | 5.34 | 4.18 | 3.49 | 2.12 |
| 1.70V | 35.8 | 26.7 | 21.7 | 15.8 | 12.7 | 9.17 | 7.33 | 6.07 | 5.19 | 4.05 | 3.40 | 2.05 |
| 1.75V | 34.8 | 25.9 | 21.0 | 15.3 | 12.3 | 8.88 | 7.09 | 5.91 | 5.05 | 3.94 | 3.30 | 2.00 |
| 1.80V | 33.7 | 25.1 | 20.3 | 14.8 | 11.9 | 8.58 | 6.89 | 5.70 | 4.88 | 3.82 | 3.17 | 1.94 |
| 1.85V | 32.6 | 24.1 | 19.5 | 14.4 | 11.4 | 8.29 | 6.63 | 5.48 | 4.70 | 3.68 | 3.09 | 1.89 |

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 |
|----------|-------|-------|-------|-------|-----|------|------|------|------|------|------|------|
| 1.60V | 457 | 340 | 275 | 201 | 162 | 117 | 93.0 | 76.8 | 65.0 | 49.9 | 41.1 | 22.3 |
| 1.67V | 444 | 330 | 268 | 196 | 157 | 113 | 90.1 | 74.6 | 63.1 | 48.4 | 40.0 | 21.6 |
| 1.70V | 430 | 320 | 260 | 189 | 152 | 110 | 87.6 | 72.3 | 61.1 | 46.9 | 38.8 | 20.9 |
| 1.75V | 417 | 311 | 252 | 184 | 147 | 107 | 84.5 | 69.9 | 59.2 | 45.5 | 37.6 | 20.3 |
| 1.80V | 404 | 300 | 243 | 178 | 143 | 103 | 81.5 | 67.4 | 57.1 | 44.0 | 36.4 | 19.6 |
| 1.85V | 391 | 290 | 235 | 173 | 138 | 99.5 | 78.9 | 64.9 | 55.1 | 42.6 | 35.2 | 19.0 |

Please refer to the official site for the latest rating confirmation. URL: www.csb-battery.com Issued: 180205

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Recognized under UL 1989,
and certified by ISO 9001, 14001.

