## $03$

EVX -series batteries are specially designed for equipment such as electric cars, bicycles, wheelchairs, golf and shopping carts, etc With VRLA technology, A product of intensive R\&D, the EVX series is small, lightweight, and suitable for numerous charges. It can be used for more than 400 cycles at 100\% discharge, or up to 8 years in standby service. As with all CSB batteries, they are rechargeable, efficient, maintenance-free, leakproof, suitable in any orientation and ISO/UL certified.

## Performance

- 100\% capacity on first discharge.
- Innovative PAM manufacturing technique increases cycle by $150 \%$ over standard sealed Pb -acid..
- Uniformed plate formation for consistent capacity.
- Hundreds to thousands of recharge cycles
(cycle life is based on temperature and depth of discharge).
- No-spill design.
-Maintenance-free.
-Reduced internal resistance for superior performance.


## Long service life

- More than 400 cycles at $100 \%$ discharge cycle use.
- Up to 8 years expected life under normal float charge conditions at $25^{\circ} \mathrm{C}\left(77^{\circ} \mathrm{F}\right)$.
- Extended shelf life (up to 14 months at $20^{\circ} \mathrm{C}$ ).


## Reliability

-CSB-manufactured batteries are 100\% 2-cycle tested by CCDS.

- CSB-manufactured batteries are UL-recognized components under UL 1989. CSB file number MH 14533.


## Standby use

- UPS.
- Communications and electrical equipment.
- Office computers, microcomputers and other OA Equipment.
- Robots, control equipment and other FA equipment.
- Emergency power supply in power generation plants and substations.


## Solar Cell Power Generation

- Street lighting.
- Portable power supply.
- Water pumping.
-Rural power systems.
- ISO 9001 and 14001 certified.


## Applications

## Cycle use

- Electric vehicles.
- Golf carts.
-Portable telephone sets.
- Portable lighting equipment.
- Power tools, lawn mowers, vacuum cleaners.
- Portable measuring equipment.
- Cameras and photographic equipment.
- Portable VTR/TV, tape recorders and radios.
- Portable personal computers and processors.



Battery Voltage and Charge Time for Standby Use
Cycle Service Life



| Specifications |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Battery Type | Nominal Voltage(V) | Nominal Capacity (20Hr) (Ah) | Weight (Approx. $\mathrm{kg})$ | Energy Density (Whil) | Specific Energy (Wh/kg) | Intemal Resistance Approx. $(m \Omega)$ | Max. Discharge Current $5 \sec (A)$ | Dimensions (mm) |  |  |  | Terminal Position | $\begin{aligned} & \text { Terminal } \\ & \text { Type } \end{aligned}$ | Max. Charging Current (A) | Max. Screw Torque value |  |
|  |  |  |  |  |  |  |  | Overall Height (H) | Container Height (h) | Length (L) | Wiath (W) |  |  |  | kgf-cm/lbf-in | N-m |
| EV $\times 1272$ | 12 | 7.2 | 2.55 | 93.6 | 33.88 | 26.00 | 100/130 | $100 \pm 1.0$ | $94 \pm 1.0$ | $151 \pm 2.0$ | $65 \pm 1.0$ | e | F1/F2 | 2.16 | -- | -- |
| EV $\times 12120$ | 12 | 12.0 | 3.83 | 103.5 | 37.60 | 18.50 | 150/180 | $100 \pm 1.0$ | $94 \pm 1.0$ | $151 \pm 2.0$ | $98 \pm 1.0$ | e | F1/F2 | 3.60 | -- | -- |
| EV $\times 12170$ | 12 | 17.0 | 5.67 | 89.4 | 35.98 | 16.50 | 230 | $167 \pm 2.0$ | $165.5+2.0$ | $181 \pm 2.0$ | $76.2 \pm 1.0$ | d | B1/B3 | 5.10 | 65/56 | 6.37 |
| EV $\times 12200$ | 12 | 20.0 | 6.70 | 108.8 | 35.82 | 14.00 | 230 | $167 \pm 2.0$ | $160 \pm 2.0$ | $181 \pm 2.0$ | $76.2 \pm 1.0$ | d | 11 | 6.00 | 65/56 | 6.37 |
| EVX 12260 | 12 | 26.0 | 8.65 | 88.0 | 36.07 | 11.50 | 350 | $125 \pm 1.5$ | $122 \pm 1.5$ | $175 \pm 2.0$ | $166 \pm 2.0$ | d | B1/B3/B3B | 7.80 | 65/56 | 6.37 |
| EV 12300 | 12 | 30.0 | 10.40 | 99.1 | 34.62 | 9.00 | 400 | $175 \pm 2.0$ | $175 \pm 2.0$ | $166 \pm 2.0$ | $125 \pm 1.5$ | c | 11 | 9.00 | 65/56 | 6.37 |
| EV $\times 12340$ | 12 | 34.0 | 10.77 | 103.7 | 37.88 | 8.50 | 400 | $178.3 \pm 2.0$ | 154.8+2.0 | $195.6 \pm 2.0$ | $130 \pm 1.5$ | c | B5 | 10.20 | 127/110 | 12.45 |
| EV $\times 12400$ | 12 | 40.0 | 12.73 | 87.6 | 37.71 | 10.00 | 400 | 170+2.0 | 168.5+2.0 | $197 \pm 2.0$ | $165 \pm 2.0$ | d | B2 | 12.00 | 65/56 | 6.37 |
| EV $\times 12520$ | 12 | 52.0 | 18.30 | 90.3 | 34.10 | 5.50 | 500 | $219.3 \pm 2.0$ | $201.3+2.0$ | $248 \pm 2.0$ | $138.4 \pm 1.5$ | c | B4 | 15.60 | 127/110 | 12.45 |
| EV $\times 12650$ | 12 | 65.0 | 22.20 | 78.0 | 35.14 | 8.00 | 500 | $174 \pm 2.0$ | 172.5+2.0 | $349.4 \pm 2.5$ | $166 \pm 2.0$ | d | B4 | 19.50 | 127/110 | 12.45 |
| EV× 12750 | 12 | 75.0 | 27.00 | 92.0 | 33.33 | 4.50 | 500 | $233.2 \pm 2.5$ | $211.2 \pm 2.5$ | $275 \pm 2.5$ | $168.5 \pm 2.0$ | c | B6 | 22.50 | 286/248 | 28.05 |

Charging(V) : • Standby Use : $2.275 \mathrm{~V} \pm 0.025 / \mathrm{CELLAT} 25^{\circ} \mathrm{C}\left(77 \mathrm{~F}^{\circ}\right)$ Temp Coefficient -3.3 mV ICELL'C

- Cycle Use : $2.45 \mathrm{~V} \pm 0.05 \mathrm{~V}$ ICELL AT $25^{\circ} \mathrm{C}\left(77^{\circ} \mathrm{F}\right)$ Temp Coefficient- $5 \mathrm{mV} / \mathrm{CELL}$ 'C

Terminal Position


Terminal Type

[FASTON TAB NO. 187]
F2
[FASTON TAB NO.250]


[M5 bolt \& nut]


## EVX1272

| Constant Current Discharge Characteristics Unit:Amperes(25 ${ }^{\circ} \mathrm{C}, 77^{\circ} \mathrm{F}$ ) |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| F.V/Time | 30MIN | 60MIN | 90MIN | 2HR | 3HR | 4HR | 5HR | 8HR | 10HR | 20HR |
| 1.60 V | 7.01 | 4.19 | 3.08 | 2.48 | 1.79 | 1.44 | 1.20 | 0.820 | 0.680 | 0.395 |
| 1.67 V | 6.79 | 4.04 | 2.98 | 2.40 | 1.72 | 1.39 | 1.16 | 0.785 | 0.652 | 0.381 |
| 1.70 V | 6.57 | 3.91 | 2.89 | 2.34 | 1.68 | 1.36 | 1.13 | 0.770 | 0.640 | 0.375 |
| 1.75 V | 6.38 | 3.80 | 2.81 | 2.27 | 1.63 | 1.32 | 1.10 | 0.745 | 0.620 | 0.360 |
| 1.80 V | 6.20 | 3.70 | 2.73 | 2.19 | 1.58 | 1.28 | 1.07 | 0.720 | 0.600 | 0.345 |
| 1.85 V | 6.00 | 3.58 | 2.65 | 2.13 | 1.53 | 1.24 | 1.04 | 0.695 | 0.580 | 0.330 |
| Constant Power Discharge Characteristics Unit:Watts(25 ${ }^{\circ} \mathrm{C}, 77{ }^{\text {F F }}$ ) |  |  |  |  |  |  |  |  |  |  |
| F.V/Time | 30MIN | 60MIN | 90MIN | 2HR | 3HR | 4HR | 5HR | 8HR | 10HR | 20HR |
| 1.60 V | 84.1 | 50.3 | 37.0 | 29.6 | 21.5 | 17.3 | 14.4 | 9.81 | 8.20 | 4.53 |
| 1.67 V | 81.4 | 48.8 | 35.8 | 28.8 | 20.9 | 16.8 | 14.0 | 9.50 | 7.86 | 4.34 |
| 1.70 V | 79.2 | 47.3 | 34.8 | 27.9 | 20.2 | 16.3 | 13.6 | 9.24 | 7.72 | 4.27 |
| 1.75 V | 76.8 | 45.9 | 33.8 | 27.1 | 19.6 | 15.8 | 13.2 | 8.96 | 7.49 | 4.13 |
| 1.80 V | 74.4 | 44.4 | 32.7 | 26.2 | 19.0 | 15.3 | 12.8 | 8.67 | 7.25 | 4.00 |
| 1.85 V | 72.0 | 43.0 | 31.7 | 25.4 | 18.4 | 14.8 | 12.4 | 8.39 | 7.02 | 3.86 |


| F.V/Time | 30 MIN | 60MIN | 90MIN | 2HR | 3HR | 4HR | 5HR | 8HR | 10HR | 20HR |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1.60 V | 12.8 | 7.52 | 5.46 | 4.32 | 3.14 | 2.45 | 2.06 | 1.36 | 1.13 | 0.655 |
| 1.67 V | 12.7 | 7.45 | 5.45 | 4.29 | 3.10 | 2.44 | 2.05 | 1.35 | 1.12 | 0.633 |
| 1.70 V | 12.6 | 7.40 | 5.41 | 4.28 | 3.09 | 2.43 | 2.04 | 1.34 | 1.11 | 0.615 |
| 1.75 V | 12.4 | 7.37 | 5.36 | 4.25 | 3.07 | 2.41 | 2.01 | 1.33 | 1.09 | 0.600 |
| 1.80 V | 12.0 | 7.18 | 5.28 | 4.17 | 3.00 | 2.38 | 1.99 | 1.32 | 1.07 | 0.585 |
| 1.85 V | 11.3 | 6.89 | 5.08 | 3.99 | 2.90 | 2.30 | 1.92 | 1.27 | 1.04 | 0.570 |
| Constant Power Discharge Characteristics Unit:Watts( $25^{\circ} \mathrm{C}, 77{ }^{\circ} \mathrm{F}$ ) |  |  |  |  |  |  |  |  |  |  |
| F.V/Time | 30 MIN | 60MIN | 90MIN | 2HR | 3HR | 4HR | 5HR | 8HR | 10HR | 20HR |
| 1.60 V | 146 | 86.1 | 63.4 | 50.5 | 36.8 | 29.3 | 24.4 | 16.2 | 13.4 | 7.13 |
| 1.67 V | 146 | 85.7 | 62.9 | 50.1 | 36.6 | 29.1 | 24.3 | 16.1 | 13.3 | 7.09 |
| 1.70 V | 144 | 85.2 | 62.7 | 50.0 | 36.4 | 28.9 | 24.2 | 16.0 | 13.2 | 7.06 |
| 1.75 V | 143 | 84.9 | 62.3 | 49.5 | 36.2 | 28.8 | 23.9 | 15.9 | 13.1 | 7.01 |
| 1.80 V | 140 | 83.5 | 61.2 | 49.0 | 35.7 | 28.5 | 23.7 | 15.7 | 12.9 | 6.87 |
| 1.85 V | 132 | 80.0 | 59.4 | 47.4 | 34.5 | 27.7 | 23.0 | 15.2 | 12.5 | 6.66 |

EVX12170

| F.V/Time | 30MIN | 60MIN | 90 MIN | 2HR | 3HR | 4HR | 5HR | 8HR | 10HR | 20HR |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1.60 V | 17.0 | 10.3 | 7.34 | 5.94 | 4.43 | 3.55 | 2.92 | 1.98 | 1.63 | 0.925 |
| 1.67 V | 16.5 | 9.94 | 7.14 | 5.77 | 4.28 | 3.43 | 2.84 | 1.92 | 1.58 | 0.904 |
| 1.70 V | 16.0 | 9.67 | 6.91 | 5.62 | 4.16 | 3.34 | 2.76 | 1.87 | 1.54 | 0.875 |
| 1.75 V | 15.5 | 9.38 | 6.69 | 5.43 | 4.03 | 3.24 | 2.68 | 1.81 | 1.49 | 0.850 |
| 1.80 V | 15.0 | 9.08 | 6.48 | 5.25 | 3.91 | 3.14 | 2.59 | 1.75 | 1.44 | 0.825 |
| 1.85 V | 14.5 | 8.79 | 6.27 | 5.09 | 3.79 | 3.04 | 2.51 | 1.69 | 1.39 | 0.800 |
| Constant Power Discharge Characteristics Unit:Watts( $\left.25^{\circ} \mathrm{C}, 77^{\circ} \mathrm{F}\right)$ |  |  |  |  |  |  |  |  |  |  |
| F.V/Time | 30MIN | 60MIN | 90 MIN | 2HR | 3HR | 4HR | 5HR | 8HR | 10HR | 20HR |
| 1.60 V | 204 | 123 | 88.1 | 71.6 | 53.1 | 42.6 | 35.0 | 23.8 | 19.6 | 10.8 |
| 1.67 V | 198 | 120 | 85.5 | 69.5 | 51.3 | 41.3 | 34.1 | 23.1 | 18.8 | 10.4 |
| 1.70 V | 192 | 116 | 82.9 | 67.9 | 49.9 | 40.1 | 33.1 | 22.4 | 18.5 | 10.2 |
| 1.75 V | 186 | 113 | 80.4 | 65.5 | 48.4 | 38.9 | 32.1 | 21.7 | 17.9 | 9.90 |
| 1.80 V | 180 | 109 | 77.8 | 63.3 | 46.9 | 37.7 | 31.1 | 21.0 | 17.3 | 9.59 |
| 1.85 V | 174 | 106 | 75.3 | 61.4 | 45.4 | 36.5 | 30.1 | 20.3 | 16.7 | 9.29 |

## EVX12200 Constant Current Discharge Characteristics Unit:Amperes( $25^{\circ} \mathrm{C}, 77^{\circ} \mathrm{F}$ )

| F.V/Time | 30MIN | 60MIN | 90MIN | 2HR | 3HR | 4HR | 5HR | 8HR | 10HR | 20HR |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1.60 V | 20.6 | 12.5 | 9.25 | 7.43 | 5.28 | 4.19 | 3.45 | 2.30 | 1.89 | 1.09 |
| 1.67 V | 20.0 | 12.3 | 8.99 | 7.25 | 5.15 | 4.10 | 3.35 | 2.23 | 1.84 | 1.05 |
| 1.70 V | 19.5 | 11.9 | 8.76 | 7.03 | 5.02 | 3.99 | 3.26 | 2.18 | 1.80 | 1.04 |
| 1.75 V | 18.9 | 11.6 | 8.50 | 6.79 | 4.85 | 3.85 | 3.16 | 2.12 | 1.75 | 1.00 |
| 1.80 V | 18.2 | 11.1 | 8.17 | 6.50 | 4.68 | 3.69 | 3.03 | 2.03 | 1.68 | 0.960 |
| 1.85 V | 17.4 | 10.6 | 7.84 | 6.22 | 4.49 | 3.52 | 2.89 | 1.95 | 1.62 | 0.920 |
| Constant Power Discharge Characteristics Unit:Watts(25 $\left.{ }^{\circ} \mathrm{C}, 77^{\circ} \mathrm{F}\right)$ |  |  |  |  |  |  |  |  |  |  |
| F.V/Time | 30 MIN | 60MIN | 90MIN | 2HR | 3HR | 4HR | 5HR | 8HR | 10HR | 20HR |
| 1.60 V | 247 | 150 | 111 | 88.7 | 63.4 | 50.3 | 41.4 | 27.6 | 22.7 | 12.3 |
| 1.67 V | 240 | 147 | 108 | 86.2 | 61.6 | 48.9 | 40.2 | 26.8 | 22.0 | 11.9 |
| 1.70 V | 233 | 143 | 105 | 83.7 | 60.0 | 47.5 | 39.1 | 26.0 | 21.5 | 11.7 |
| 1.75 V | 226 | 138 | 101 | 80.6 | 58.1 | 45.9 | 37.6 | 25.2 | 20.8 | 11.3 |
| 1.80 V | 218 | 133 | 98.0 | 77.4 | 56.1 | 44.3 | 36.3 | 24.3 | 20.1 | 10.8 |
| 1.85 V | 209 | 127 | 94.0 | 74.4 | 53.8 | 42.3 | 34.6 | 23.3 | 19.3 | 10.4 |

## EVX12260

| F.V/Time | 30MIN | 60MIN | 90MIN | 2HR | 3HR | 4HR | 5HR | 8HR | 10HR | 20HR |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1.60 V | 27.3 | 16.5 | 11.8 | 9.54 | 7.03 | 5.66 | 4.68 | 3.18 | 2.63 | 1.44 |
| 1.67 V | 26.5 | 16.0 | 11.4 | 9.22 | 6.82 | 5.49 | 4.56 | 3.09 | 2.56 | 1.41 |
| 1.70 V | 25.7 | 15.5 | 11.1 | 8.97 | 6.59 | 5.32 | 4.43 | 3.00 | 2.48 | 1.37 |
| 1.75 V | 24.9 | 15.0 | 10.8 | 8.68 | 6.39 | 5.16 | 4.30 | 2.91 | 2.40 | 1.33 |
| 1.80 V | 24.1 | 14.6 | 10.4 | 8.41 | 6.19 | 5.00 | 4.16 | 2.81 | 2.32 | 1.28 |
| 1.85 V | 23.3 | 14.1 | 10.1 | 8.13 | 5.99 | 4.84 | 4.03 | 2.72 | 2.24 | 1.24 |
| Constant Power Discharge Characteristics Unit:Watts( $25^{\circ} \mathrm{C}, 77^{\circ} \mathrm{F}$ ) |  |  |  |  |  |  |  |  |  |  |
| F.V/Time | 30MIN | 60MIN | 90MIN | 2HR | 3HR | 4HR | 5HR | 8HR | 10HR | 20HR |
| 1.60 V | 328 | 198 | 141 | 114 | 84.3 | 67.9 | 56.2 | 38.2 | 31.5 | 17.3 |
| 1.67 V | 318 | 192 | 137 | 111 | 81.4 | 65.7 | 54.6 | 37.2 | 30.6 | 16.9 |
| 1.70 V | 308 | 186 | 133 | 107 | 79.1 | 63.8 | 53.2 | 36.0 | 29.7 | 16.4 |
| 1.75 V | 299 | 181 | 129 | 104 | 76.7 | 61.9 | 51.6 | 34.9 | 28.8 | 15.9 |
| 1.80 V | 289 | 175 | 125 | 101 | 74.3 | 60.0 | 49.9 | 33.7 | 27.8 | 15.4 |
| 1.85 V | 280 | 170 | 121 | 97.1 | 71.9 | 58.1 | 48.3 | 32.6 | 26.9 | 14.9 |

Constant Current Discharge Characteristics Unit:Amperes(25 $\left.{ }^{\circ} \mathrm{C}, 77^{\circ} \mathrm{F}\right)$

| F.V/Time | 30MIN | 60MIN | 90MIN | 2HR | 3HR | 4HR | 5HR | 8HR | 10HR | 20HR |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1.60 V | 31.2 | 17.7 | 12.7 | 10.3 | 7.48 | 6.05 | 5.03 | 3.39 | 2.82 | 1.61 |
| 1.67 V | 30.6 | 17.3 | 12.3 | 9.94 | 7.25 | 5.87 | 4.90 | 3.29 | 2.75 | 1.58 |
| 1.70 V | 30.0 | 16.8 | 11.9 | 9.66 | 7.04 | 5.70 | 4.76 | 3.21 | 2.68 | 1.54 |
| 1.75 V | 29.2 | 16.3 | 11.6 | 9.38 | 6.82 | 5.54 | 4.64 | 3.12 | 2.61 | 1.50 |
| 1.80 V | 28.4 | 15.8 | 11.3 | 9.07 | 6.61 | 5.37 | 4.51 | 3.04 | 2.53 | 1.45 |
| 1.85 V | 27.6 | 15.3 | 10.9 | 8.79 | 6.39 | 5.21 | 4.39 | 2.94 | 2.46 | 1.41 |
| Constant Power Discharge Characteristics Unit:Watts( $25^{\circ} \mathrm{C}, 77^{\circ} \mathrm{F}$ ) |  |  |  |  |  |  |  |  |  |  |
| F.V/Time | 30MIN | 60MIN | 90MIN | 2HR | 3HR | 4HR | 5HR | 8HR | 10HR | 20HR |
| 1.60 V | 374 | 212 | 152 | 123 | 89.8 | 72.6 | 60.4 | 40.1 | 33.1 | 17.3 |
| 1.67 V | 367 | 207 | 147 | 120 | 87.1 | 70.4 | 58.6 | 39.1 | 32.2 | 16.8 |
| 1.70 V | 359 | 202 | 143 | 116 | 84.5 | 68.4 | 57.1 | 38.1 | 31.4 | 16.4 |
| 1.75 V | 351 | 196 | 139 | 112 | 81.9 | 66.4 | 55.6 | 37.0 | 30.5 | 15.9 |
| 1.80 V | 341 | 190 | 135 | 109 | 79.3 | 64.4 | 54.1 | 35.9 | 29.5 | 15.4 |
| 1.85 V | 332 | 184 | 131 | 105 | 76.7 | 62.4 | 52.6 | 34.7 | 28.4 | 14.9 |

EVX12340

| Constant Current Discharge Characteristics Unit:Amperes( $25^{\circ} \mathrm{C}, 77^{\circ} \mathrm{F}$ ) |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| F.V/Time | 30MIN | 60MIN | 90MIN | 2HR | 3HR | 4HR | 5HR | 8HR | 10HR | 20HR |
| 1.60 V | 34.5 | 20.2 | 14.6 | 11.6 | 8.25 | 6.53 | 5.39 | 3.63 | 3.06 | 1.85 |
| 1.67 V | 33.6 | 19.8 | 14.5 | 11.5 | 8.19 | 6.49 | 5.34 | 3.57 | 3.02 | 1.80 |
| 1.70 V | 32.8 | 19.5 | 14.3 | 11.3 | 8.12 | 6.42 | 5.28 | 3.51 | 2.95 | 1.76 |
| 1.75 V | 31.8 | 19.1 | 14.0 | 11.2 | 8.02 | 6.36 | 5.22 | 3.46 | 2.90 | 1.72 |
| 1.80 V | 30.8 | 18.7 | 13.8 | 11.0 | 7.86 | 6.27 | 5.14 | 3.41 | 2.86 | 1.69 |
| 1.85 V | 29.9 | 18.3 | 13.5 | 10.8 | 7.74 | 6.12 | 5.07 | 3.36 | 2.82 | 1.65 |
| Constant Power Discharge Characteristics Unit:Watts( $25^{\circ} \mathrm{C}, 77{ }^{\circ} \mathrm{F}$ ) |  |  |  |  |  |  |  |  |  |  |
| F.V/Time | 30MIN | 60MIN | 90 MIN | 2HR | 3HR | 4HR | 5HR | 8HR | 10HR | 20HR |
| 1.60 V | 414 | 242 | 175 | 141 | 99.0 | 78.4 | 64.7 | 43.6 | 36.0 | 19.5 |
| 1.67 V | 404 | 238 | 173 | 139 | 98.3 | 78.0 | 64.1 | 42.8 | 35.3 | 19.0 |
| 1.70 V | 393 | 234 | 171 | 137 | 97.4 | 77.4 | 63.4 | 42.2 | 34.6 | 18.5 |
| 1.75 V | 382 | 229 | 168 | 135 | 96.3 | 76.5 | 62.6 | 41.5 | 33.9 | 18.0 |
| 1.80 V | 370 | 224 | 165 | 132 | 95.1 | 75.5 | 61.8 | 40.9 | 33.4 | 17.6 |
| 1.85 V | 359 | 219 | 162 | 130 | 93.7 | 74.2 | 60.8 | 40.3 | 32.9 | 17.1 |

EVX12400

| F.V/Time | 30MIN | 60MIN | 90MIN | 2HR | 3HR | 4HR | 5HR | 8HR | 10HR | 20HR |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1.60 V | 38.1 | 22.9 | 16.8 | 13.4 | 9.75 | 7.76 | 6.42 | 4.31 | 3.59 | 2.17 |
| 1.67 V | 37.0 | 22.3 | 16.3 | 13.0 | 9.47 | 7.52 | 6.23 | 4.18 | 3.49 | 2.12 |
| 1.70 V | 35.8 | 21.7 | 15.8 | 12.7 | 9.17 | 7.33 | 6.07 | 4.05 | 3.40 | 2.05 |
| 1.75 V | 34.8 | 21.0 | 15.3 | 12.3 | 8.88 | 7.09 | 5.91 | 3.94 | 3.30 | 2.00 |
| 1.80 V | 33.7 | 20.3 | 14.8 | 11.9 | 8.58 | 6.89 | 5.70 | 3.82 | 3.17 | 1.94 |
| 1.85 V | 32.6 | 19.5 | 14.4 | 11.4 | 8.29 | 6.62 | 5.48 | 3.68 | 3.09 | 1.89 |
| Constant Power Discharge Characteristics Unit:Watts( $25^{\circ} \mathrm{C}, 77{ }^{\text {F F }}$ ) |  |  |  |  |  |  |  |  |  |  |
| F.V/Time | 30MIN | 60MIN | 90MIN | 2HR | 3HR | 4HR | 5HR | 8HR | 10HR | 20HR |
| 1.60 V | 457 | 275 | 201 | 162 | 117 | 93.0 | 76.8 | 49.9 | 41.1 | 22.3 |
| 1.67 V | 444 | 268 | 196 | 157 | 113 | 90.1 | 74.6 | 48.4 | 40.0 | 21.6 |
| 1.70 V | 430 | 260 | 189 | 152 | 110 | 87.6 | 72.3 | 46.9 | 38.8 | 20.9 |
| 1.75 V | 417 | 252 | 184 | 147 | 107 | 84.5 | 69.9 | 45.5 | 37.6 | 20.3 |
| 1.80 V | 404 | 243 | 178 | 143 | 103 | 81.5 | 67.4 | 44.0 | 36.4 | 19.6 |
| 1.85 V | 391 | 235 | 173 | 138 | 99.5 | 78.9 | 64.9 | 42.6 | 35.2 | 19.0 |

EVX12520

| Constant Current Discharge Characteristics Unit:Amperes( $25^{\circ} \mathrm{C}, 77^{\circ} \mathrm{F}$ ) |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| F.V/Time | 30MIN | 60MIN | 90MIN | 2HR | 3HR | 4HR | 5HR | 8HR | 10HR | 20HR |
| 1.60 V | 64.9 | 36.8 | 27.0 | 21.0 | 14.8 | 11.7 | 9.60 | 6.60 | 5.42 | 2.84 |
| 1.67 V | 63.5 | 36.4 | 26.8 | 20.8 | 14.6 | 11.6 | 9.52 | 6.52 | 5.36 | 2.80 |
| 1.70 V | 62.1 | 35.8 | 26.5 | 20.6 | 14.5 | 11.5 | 9.45 | 6.45 | 5.29 | 2.76 |
| 1.75 V | 60.6 | 35.2 | 26.1 | 20.3 | 14.3 | 11.4 | 9.37 | 6.34 | 5.21 | 2.72 |
| 1.80 V | 59.2 | 34.7 | 25.6 | 20.1 | 14.2 | 11.3 | 9.26 | 6.22 | 5.12 | 2.67 |
| 1.85 V | 57.8 | 34.2 | 25.1 | 19.9 | 14.1 | 11.2 | 9.16 | 6.11 | 5.03 | 2.62 |
| Constant Power Discharge Characteristics Unit:Watts( $25^{\circ} \mathrm{C}, 77^{\circ} \mathrm{F}$ ) |  |  |  |  |  |  |  |  |  |  |
| F.V/Time | 30MIN | 60MIN | 90MIN | 2HR | 3HR | 4HR | 5HR | 8HR | 10HR | 20HR |
| 1.60 V | 668 | 386 | 284 | 221 | 154 | 124 | 102 | 70.9 | 58.7 | 33.6 |
| 1.67 V | 656 | 382 | 281 | 219 | 153 | 123 | 101 | 70.2 | 58.1 | 33.1 |
| 1.70 V | 645 | 378 | 277 | 217 | 152 | 122 | 100 | 69.4 | 57.4 | 32.5 |
| 1.75 V | 631 | 372 | 273 | 214 | 151 | 121 | 99.0 | 68.6 | 56.7 | 31.8 |
| 1.80 V | 615 | 368 | 269 | 212 | 150 | 120 | 98.1 | 67.6 | 55.8 | 31.1 |
| 1.85 V | 598 | 363 | 264 | 209 | 149 | 119 | 97.0 | 66.1 | 54.8 | 30.4 |

Constant Current Discharge Characteristics Unit:Amperes $\left(25^{\circ} \mathrm{C}, 77^{\circ} \mathrm{F}\right)$

| F.V/Time | 30MIN | 60MIN | 90MIN | 2HR | 3HR | 4HR | 5HR | 8HR | 10HR | 20HR |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1.60 V | 70.5 | 41.2 | 30.0 | 23.9 | 17.0 | 13.4 | 11.1 | 7.57 | 6.31 | 3.38 |
| 1.67 V | 69.9 | 41.1 | 29.8 | 23.7 | 16.9 | 13.3 | 11.0 | 7.54 | 6.28 | 3.35 |
| 1.70 V | 69.4 | 40.8 | 29.6 | 23.6 | 16.8 | 13.2 | 10.9 | 7.50 | 6.24 | 3.34 |
| 1.75 V | 68.3 | 40.4 | 29.4 | 23.4 | 16.7 | 13.1 | 10.8 | 7.42 | 6.16 | 3.31 |
| 1.80 V | 65.7 | 39.4 | 28.8 | 23.0 | 16.4 | 12.9 | 10.7 | 7.28 | 6.04 | 3.23 |
| 1.85 V | 61.3 | 37.4 | 27.5 | 22.0 | 15.7 | 12.4 | 10.2 | 6.99 | 5.78 | 3.11 |
| Constant Power Discharge Characteristics Unit:Watts( $25^{\circ} \mathrm{C}, 77{ }^{\text {F F }}$ ) |  |  |  |  |  |  |  |  |  |  |
| F.V/Time | 30MIN | 60MIN | 90MIN | 2HR | 3HR | 4HR | 5HR | 8HR | 10HR | 20HR |
| 1.60 V | 806 | 484 | 353 | 279 | 199 | 158 | 132 | 90.0 | 74.7 | 40.3 |
| 1.67 V | 804 | 481 | 351 | 277 | 198 | 157 | 130 | 89.6 | 74.3 | 40.2 |
| 1.70 V | 795 | 477 | 350 | 276 | 197 | 156 | 129 | 89.2 | 74.2 | 40.0 |
| 1.75 V | 784 | 475 | 347 | 275 | 196 | 155 | 128 | 88.2 | 73.2 | 39.7 |
| 1.80 V | 759 | 467 | 342 | 270 | 193 | 151 | 127 | 86.9 | 72.0 | 38.9 |
| 1.85 V | 714 | 446 | 329 | 259 | 186 | 147 | 122 | 83.2 | 68.9 | 37.8 |

EVX12750

| Constant Current Discharge Characteristics Unit:Amperes( $25^{\circ} \mathrm{C}, 77^{\circ} \mathrm{F}$ ) |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| F.V/Time | 30MIN | 60MIN | 90 MIN | 2HR | 3HR | 4HR | 5HR | 8HR | 10HR | 20HR |
| 1.60 V | 83.2 | 49.3 | 35.7 | 28.1 | 19.9 | 15.6 | 12.8 | 8.35 | 6.82 | 3.84 |
| 1.67 V | 81.6 | 48.6 | 35.2 | 27.6 | 19.7 | 15.4 | 12.7 | 8.25 | 6.74 | 3.80 |
| 1.70 V | 80.1 | 47.8 | 34.6 | 27.2 | 19.4 | 15.2 | 12.5 | 8.15 | 6.67 | 3.77 |
| 1.75 V | 78.1 | 46.8 | 33.9 | 26.7 | 19.2 | 15.0 | 12.4 | 8.07 | 6.60 | 3.75 |
| 1.80 V | 75.8 | 45.7 | 33.2 | 26.2 | 18.9 | 14.8 | 12.2 | 7.98 | 6.54 | 3.72 |
| 1.85 V | 73.3 | 44.4 | 32.5 | 25.7 | 18.6 | 14.6 | 12.0 | 7.89 | 6.47 | 3.68 |
| Constant Power Discharge Characteristics Unit:Watts(25 $\left.{ }^{\circ} \mathrm{C}, 77^{\circ} \mathrm{F}\right)$ |  |  |  |  |  |  |  |  |  |  |
| F.V/Time | 30 MIN | 60MIN | 90 MIN | 2HR | 3HR | 4HR | 5HR | 8HR | 10HR | 20HR |
| 1.60 V | 924 | 538 | 392 | 313 | 226 | 177 | 146 | 95.2 | 77.5 | 41.4 |
| 1.67 V | 906 | 532 | 386 | 309 | 223 | 175 | 144 | 94.3 | 77.0 | 41.2 |
| 1.70 V | 887 | 524 | 380 | 304 | 219 | 172 | 142 | 93.4 | 76.4 | 41.0 |
| 1.75 V | 863 | 513 | 373 | 299 | 216 | 170 | 140 | 92.3 | 75.7 | 40.7 |
| 1.80 V | 839 | 500 | 367 | 293 | 213 | 168 | 139 | 91.3 | 75.0 | 40.6 |
| 1.85 V | 813 | 484 | 359 | 288 | 210 | 165 | 137 | 90.3 | 74.2 | 39.8 |

All information is subject to change without (prior) notification. Please consult CSB website (www.csb-battery.com) for latest information.


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