



TPL series

TPL 121000 12V 100AH



Valve Regulated Lead Acid Battery

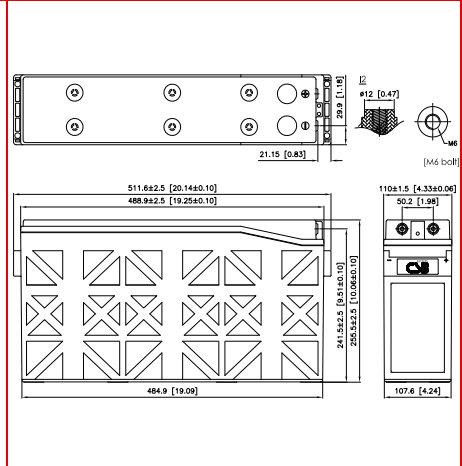
Maintenance-Free Sealed Lead Acid Battery.
Absorbent Glass Mat (AGM) technology for efficient gas recombination of up to 99%.

Design for Standby Power Applications

| | |
|---|---|
| <p>【Design Life】 Up to 12 Years in Standby Service at 25°C Eurobat (20°C) : 10-12 years, Long Life</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>【Float Charging Voltage】 13.5 ~ 13.8 VDC/Unit at 25°C (77°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> |
|---|---|

Specification Design according with IEC 60896-21/22:2004

| | | | |
|---------------------------|---|--------------|-----------------|
| Nominal Voltage | 12V (6 cells per unit) | | |
| Nominal Capacity | 100AH @8HR-rate to 1.75V per PCS @25°C (77°F) | | |
| Weight | Approx. 38.30 Kg (84.41 lbs) | | |
| Maximum Discharge Current | 800A (5sec) | | |
| Internal Resistance | Approx. 3.70 mΩ | | |
| Short Circuit Current | 2216A | | |
| Maximum Charge Current | 30A | | |
| Terminal types | I2 thread lead alloy terminal to accept M6 bolt | | |
| Terminal breaking Torque | 138.6 Kgf·cm / 120.3 Lbf·in / 13.58 N·m | | |
| Container Material | Flame Retardant ABS (UL 94-V0) | | |
| Dimensions (mm/inch) | Length (L) | 511.6±2.5 mm | 20.16±0.10 inch |
| | Width (W) | 110.0±1.5 mm | 4.44±0.06 inch |
| | Overall Height (H) | 255.5±2.5 mm | 10.11±0.10 inch |



| Constant Current Discharge Characteristics Unit: A (25°C, 77°F) | | | | | | | | | | | | |
|---|-------|-------|-------|-------|------|------|------|------|------|------|------|------|
| F.V/Time | 15MIN | 30MIN | 60MIN | 90MIN | 2HR | 3HR | 4HR | 5HR | 6HR | 8HR | 10HR | 20HR |
| 1.67V | 186 | 118 | 69.1 | 50.2 | 40.1 | 29.6 | 23.8 | 19.8 | 16.9 | 13.0 | 10.6 | 5.56 |
| 1.70V | 175 | 114 | 67.4 | 49.4 | 39.4 | 29.3 | 23.5 | 19.5 | 16.6 | 12.8 | 10.5 | 5.50 |
| 1.75V | 157 | 106 | 64.0 | 47.3 | 38.0 | 28.4 | 22.8 | 18.8 | 16.0 | 12.5 | 10.3 | 5.38 |
| 1.80V | 139 | 98.0 | 60.3 | 44.7 | 36.3 | 27.0 | 21.8 | 18.1 | 15.6 | 12.1 | 10.0 | 5.25 |
| 1.83V | 129 | 92.5 | 58.0 | 43.5 | 35.1 | 26.1 | 21.1 | 17.6 | 15.2 | 11.7 | 9.63 | 5.13 |
| 1.85V | 122 | 88.2 | 56.0 | 42.5 | 34.3 | 25.4 | 20.7 | 17.2 | 14.8 | 11.5 | 9.50 | 5.00 |

| Constant Power Discharge Characteristics Unit: W (25°C, 77°F) | | | | | | | | | | | | |
|---|-------|-------|-------|-------|-----|-----|-----|-----|-----|-----|------|------|
| F.V/Time | 15MIN | 30MIN | 60MIN | 90MIN | 2HR | 3HR | 4HR | 5HR | 6HR | 8HR | 10HR | 20HR |
| 1.67V | 1969 | 1272 | 757 | 554 | 446 | 331 | 268 | 223 | 191 | 147 | 120 | 63.1 |
| 1.70V | 1878 | 1233 | 746 | 549 | 439 | 329 | 267 | 222 | 189 | 145 | 119 | 62.9 |
| 1.75V | 1716 | 1161 | 723 | 534 | 428 | 322 | 261 | 216 | 185 | 144 | 118 | 62.3 |
| 1.80V | 1549 | 1075 | 691 | 511 | 414 | 313 | 254 | 212 | 183 | 141 | 116 | 61.6 |
| 1.83V | 1450 | 1025 | 669 | 502 | 405 | 305 | 246 | 207 | 179 | 138 | 114 | 60.6 |
| 1.85V | 1382 | 994 | 655 | 496 | 399 | 299 | 241 | 203 | 175 | 136 | 113 | 59.5 |

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

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

