

Powered by



TPL 121000 ▶ 12V 100Ah

TPL 121000 is a front terminal battery up to 12 years expected life under normal float charge As with all CSB batteries, all are rechargeable, highly efficient, leak proof and maintenance free.



► Specification

| | |
|--|---|
| Cells Per Unit | 6 |
| Voltage Per Unit | 12 |
| Capacity | 100Ah @ 8hr-rate to 1.75V per cell @25 °C (77°F) |
| Weight | Approx. 36kg(79.37 lbs) |
| Maximum Discharge Current | 800A(5sec) |
| Internal Resistance | Approx. 4.5 mΩ |
| Operating Temperature Range | 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) |
| Nominal Operating Temperature Range | 25°C±3°C(77°F±5°F) |
| Float Charging Voltage | 2.275 ± 0.025V / Cell at 25 °C (77°F) Temp. Coefficient ±3.3mV/°C(± 1.8mV/°F) |
| Recommended Maximum Charging Current Limit | 30A |
| Equalization / Cycle Use Charging Voltage | 2.45V Temps coefficient ±0.05mV/°C(± 1.8mV/°F) |
| Terminal | I2-Thread lead alloy recessed terminal to accept M6 bolt |
| Terminal Hardware Initial Torque | 91-in-lbs.(10.32 N-m) |
| Container Material | ABS(UL94-V0/File E88637)&(UL94-HB/File E50263)/ L.O.I higher than 28 |



MH14533(N)



No.:041005117



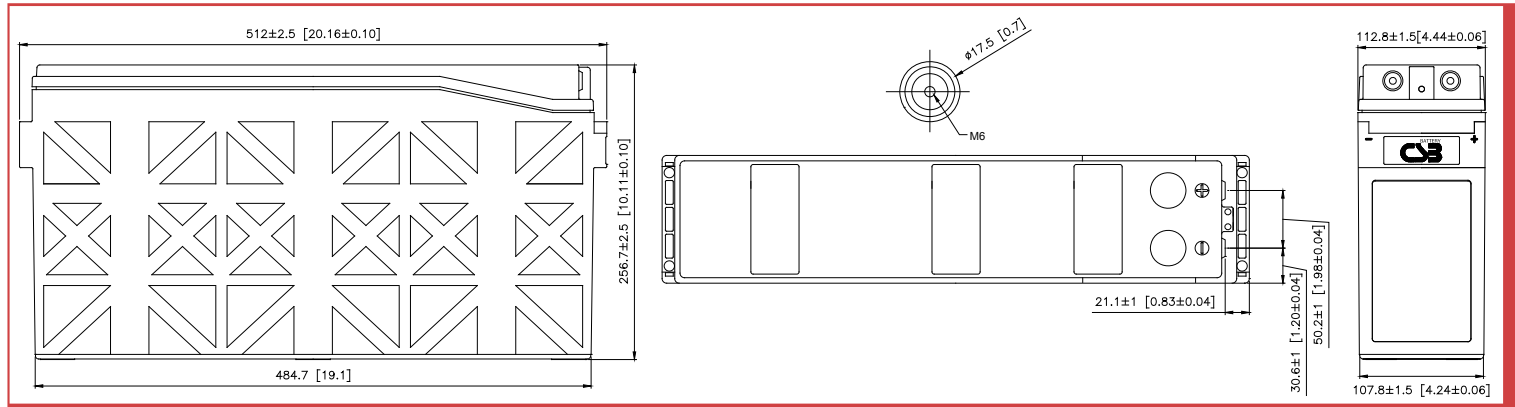
CSB-manufactured VRLA batteries are UL-recognized components under UL924 and UL1989.

CSB is also certified by ISO 9001 and ISO 14001.

► Dimensions :

Unit: mm (inch)

| Overall Height (H) | Length (L) | Width (W) |
|-----------------------|-------------------|-----------------------|
| 256.7±2.5 (10.11±0.1) | 512±2.5 (20.16±1) | 112.8±1.5 (4.44±0.06) |



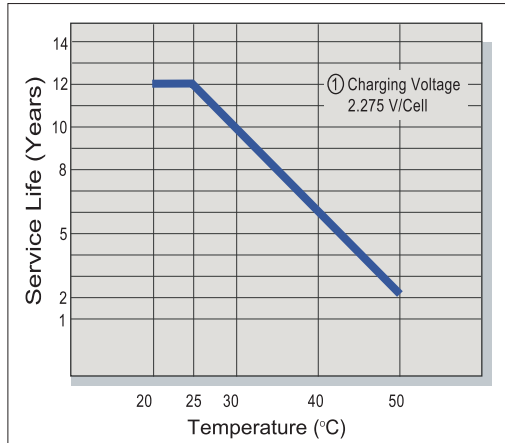
Constant Current Discharge Characteristics Unit:A (25°C ,77°F)

| F.V/Time | 15MIN | 30MIN | 60MIN | 90MIN | 2HR | 3HR | 4HR | 5HR | 6HR | 7HR | 8HR | 10HR | 20HR |
|----------|-------|-------|-------|-------|------|------|------|------|------|------|------|------|------|
| 1.67V | 186 | 118 | 69.1 | 50.2 | 40.1 | 29.6 | 23.8 | 19.8 | 16.9 | 14.7 | 13.0 | 10.6 | 5.56 |
| 1.70V | 175 | 114 | 67.4 | 49.4 | 39.4 | 29.3 | 23.5 | 19.5 | 16.6 | 14.5 | 12.8 | 10.5 | 5.50 |
| 1.75V | 157 | 106 | 64.0 | 47.3 | 38.0 | 28.4 | 22.8 | 18.8 | 16.0 | 14.0 | 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 | 13.6 | 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 | 13.2 | 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 | 12.9 | 11.5 | 9.50 | 5.00 |
| 1.90V | 105 | 78.6 | 51.4 | 39.4 | 32.1 | 23.6 | 18.8 | 15.6 | 13.3 | 11.8 | 10.5 | 8.69 | 4.63 |

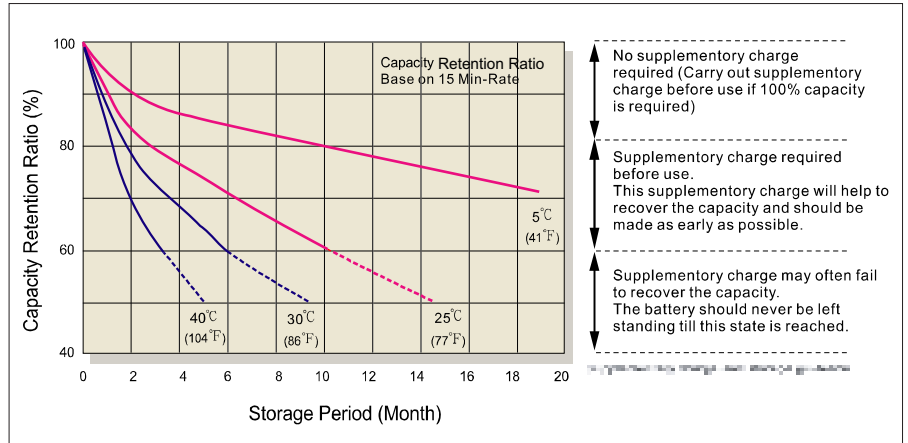
Constant Power Discharge Characteristics Unit:W (25°C ,77°F)

| F.V/Time | 15MIN | 30MIN | 60MIN | 90MIN | 2HR | 3HR | 4HR | 5HR | 6HR | 7HR | 8HR | 10HR | 20HR |
|----------|-------|-------|-------|-------|-----|-----|-----|-----|-----|-----|-----|------|------|
| 1.67V | 1,969 | 1,272 | 757 | 554 | 446 | 331 | 268 | 223 | 191 | 166 | 147 | 120 | 63.1 |
| 1.70V | 1,878 | 1,233 | 746 | 549 | 439 | 329 | 267 | 222 | 189 | 165 | 145 | 119 | 62.9 |
| 1.75V | 1,716 | 1,161 | 723 | 534 | 428 | 322 | 261 | 216 | 185 | 162 | 144 | 118 | 62.3 |
| 1.80V | 1,549 | 1,075 | 691 | 511 | 414 | 313 | 254 | 212 | 183 | 159 | 141 | 116 | 61.6 |
| 1.83V | 1,450 | 1,025 | 669 | 502 | 405 | 305 | 246 | 207 | 179 | 155 | 138 | 114 | 60.6 |
| 1.85V | 1,382 | 994 | 655 | 496 | 399 | 299 | 241 | 203 | 175 | 153 | 136 | 113 | 59.5 |
| 1.90V | 1,208 | 913 | 606 | 466 | 381 | 282 | 225 | 187 | 175 | 141 | 126 | 104 | 55.7 |

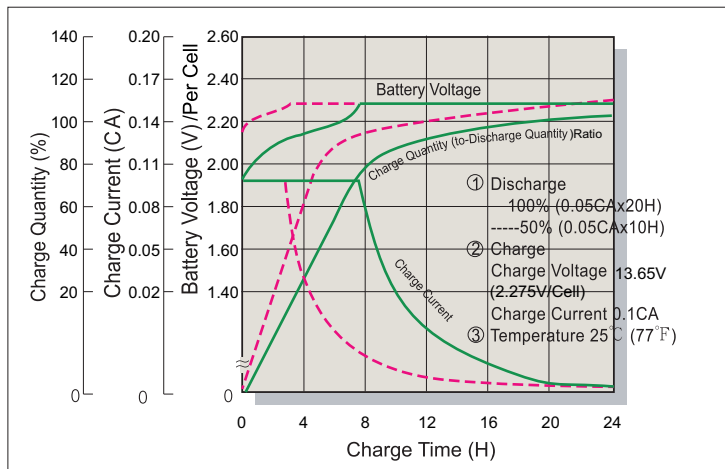
Trickle (or Float) Service Life



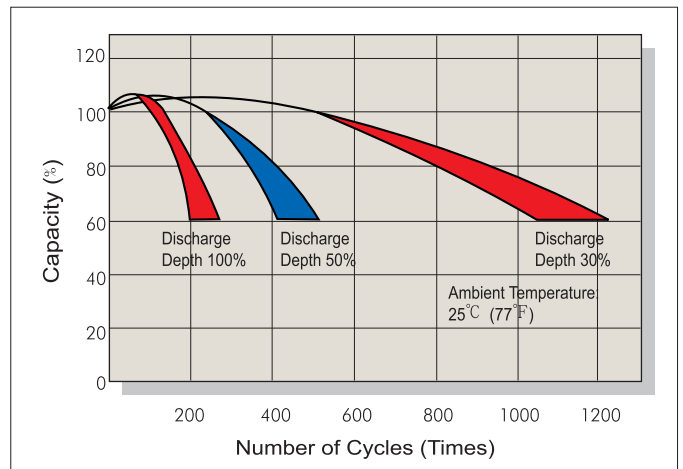
Capacity Retention Characteristic



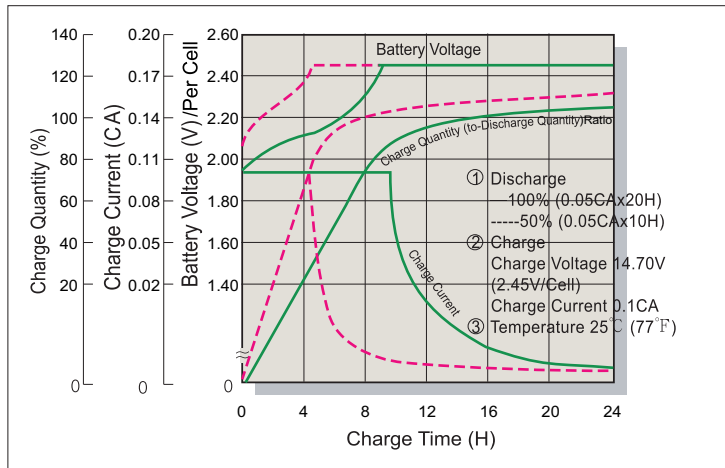
Battery Voltage and Charge Time for Standby Use



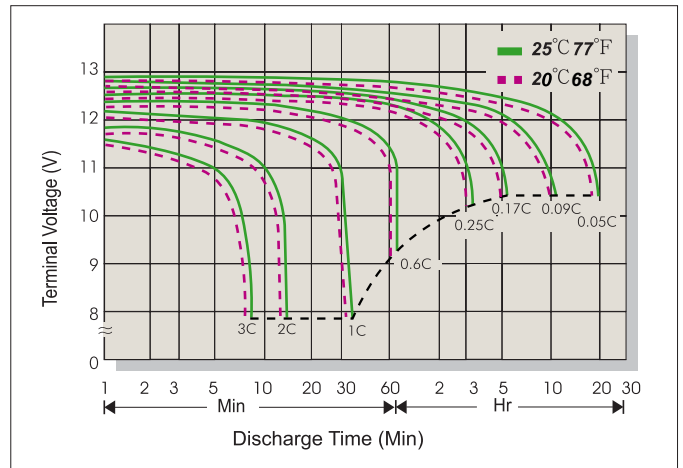
Cycle Service Life



Battery Voltage and Charge Time for Cycle Use



Terminal Voltage (V) and Discharge Time



Charging Procedures

| Application | Charge Voltage(V/Cell) | | | Max. Charge Current |
|-------------|------------------------|-----------|-----------------|---------------------|
| | Temperature | Set Point | Allowable Range | |
| Cycle Use | 25°C (77°F) | 2.45 | 2.40~2.50 | 0.3C |
| Standby | 25°C (77°F) | 2.275 | 2.25~2.30 | |

Discharge Current VS. Discharge Voltage

| Final Discharge Voltage V/Cell | 1.75 | 1.70 | 1.60 | 1.30 |
|--------------------------------|----------|---------------|---------------|----------|
| Discharge Current(A) | 0.2C>(A) | 0.2C<(A)<0.5C | 0.5C<(A)<1.0C | (A)>1.0C |

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