CML 100 GEL

Gel Deep-cycle Battery

Specification

Nominal Voltage
Nominal Capacity(20Hr)

Dimensions

Approx Weight Terminal

Container Material

Rated Capacity

Max. Discharge Current
Internal Resistance

Operating Temp.Range

Operating Temp. Range

Cycle Use

Standby Use

Capacity affected by Temperature

Self Discharge

12V 100Ah

 Length
 307±2mm (12.09 inches)

 Width
 169 ± 2mm (6.66 inches)

 Container Height
 211±2mm (8.28 inches)

Total Height (with Terminal) 215 ± 2 mm (8.66 inches) Approx 27.0kg (59.5lbs) \pm 2% tolerance

T3 (M6X16) / Torque: 3.9 ~ 5.4 Nm

ABS

100.0 AH/5.0A (20hr ,1.80V/cell,25°C/77°F)
97.0 AH/9.75A (10hr,1.80V/cell,25°C/77°F)
88.0 AH/17.6A (5hr,1.75V/cell,25°C/77°F)

1080A (5s)

Approx $5.0 \text{m}\,\Omega$

Discharge : -15∼50°C (5 ∼°122F) Charge : 0∼40°C (32 ∼°104F) Storage : -15∼40°C (5 ∼°104F)

 $25\pm\mathring{\text{3C}}$ (77 $^{\circ}\pm5\text{F}$) but can work in - 15~50°C (5 \sim 122F)

Initial Charging Current less than 27.0A.Voltage

14.4V~15.0V at 25° C(77° F)Temp. Coefficient -30mV/°C

No limit on Initial Charging Current Voltage 13.5V~13.8V at 25°C(77°F)Temp. Coefficient -20mV/°C

 40°C
 (104°F)
 103%

 25°C
 (77°F)
 100%

 0°C
 (32°F)
 86%

The self-discharge rate is about 2% at 25°C (77°F) per month. Refreshing charge is required after stored for 8 months. For higher temperature, shorter interval.

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Applications

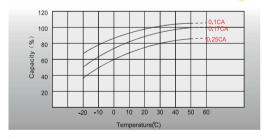
- Solar or Wind Power System
- Stored energy (Photovoltaic)
- Uninterruptable Power Supply (UPS)
- Electric Power System (EPS)
- Emergency backup power supply
- Emergency light
- Railway signal
- Aircraft signal
- Alarm and security system
- · Electronic apparatus and equipment
- Telecommunications
- DC power supply



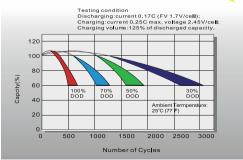


ISO9001 ISO14001

Temperature Effects in Relation to Battery Capacity

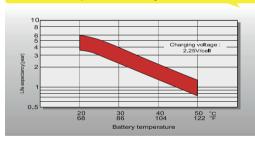


Cycle Life in Relation to Depth of Discharge

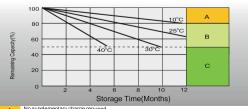


Specifications subject to change without prior notice.

Effect of Temperature on Long Term Float Life



Self Discharge Characteristics



No supplementary charge required.
(Carry out supp lementary charge before use if 100% capacity is required.)

B Supplem entary charge required before us e.Optional charging way as below:

1.Charg ed for abows 3 days at limited current 0.25CA and constant volatge 2.25V/cell.

2.Charg ed for abowe 20 hours at limited current 0.25CA.

3.Charged for 8-10 hours at limited current 0.35CA.

Supplem entary charge may often fail to recover the capacity.
The battery sho uld nev er be left standing till this is reached.