

CML 100 GEL

Gel Deep-cycle Battery

mbat

Specification

Nominal Voltage	12V	
Nominal Capacity(20Hr)	100Ah	
Dimensions	Length	307 ± 2mm (12.09 inches)
	Width	169 ± 2mm (6.66 inches)
	Container Height	211 ± 2mm (8.28 inches)
	Total Height (with Terminal)	215 ± 2mm (8.66 inches)
Approx Weight	Approx 27.0kg (59.5lbs) ± 2% tolerance	
Terminal	T3 (M6X16) / Torque: 3.9 ~ 5.4 Nm	
Container Material	ABS	
Rated Capacity	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)
Max. Discharge Current	1080A (5s)	
Internal Resistance	Approx 5.0mΩ	
Operating Temp.Range	Discharge : -15~50°C (5 ~122°F)	
	Charge : 0~40°C (32 ~104°F)	
	Storage : -15~40°C (5 ~104°F)	
Operating Temp. Range	25±3C (77 ⁺ ±5F) but can work in - 15~50C (5 ~ 122F)	
Cycle Use	Initial Charging Current less than 27.0A.Voltage	
	14.4V~15.0V at 25°C(77°F)Temp. Coefficient -30mV/°C	
Standby Use	No limit on Initial Charging Current Voltage	
	13.5V~13.8V at 25°C(77°F)Temp. Coefficient -20mV/°C	
Capacity affected by Temperature	40°C (104°F)	103%
	25°C (77°F)	100%
	0°C (32°F)	86%
Self Discharge	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.	

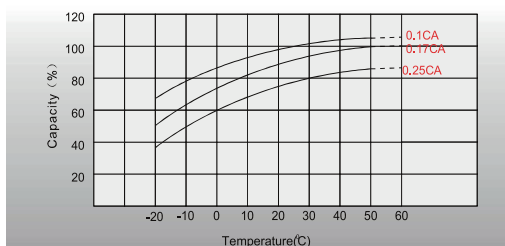
Applications

- ♦ 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

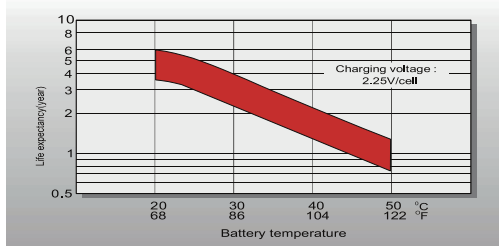


ISO9001 ISO14001

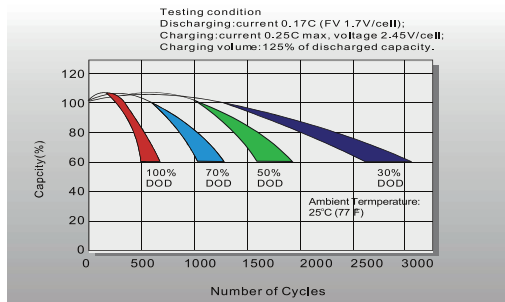
Temperature Effects in Relation to Battery Capacity



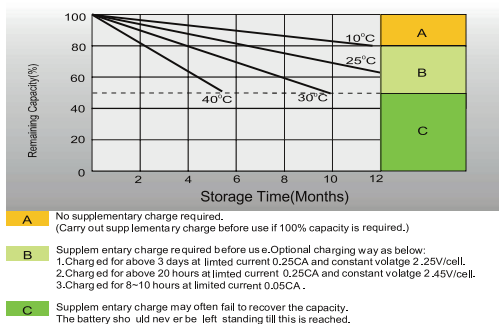
Effect of Temperature on Long Term Float Life



Cycle Life in Relation to Depth of Discharge



Self Discharge Characteristics



Specifications subject to change without prior notice.