

## CML 130 GEL

## Gel Deep-cycle Battery

**mbat**

### Specification

Nominal Voltage	12V	
Nominal Capacity(20Hr)	130Ah	
Dimensions	Length	331 ±2mm (13.0 inches)
	Width	174 ±2mm (6.81 inches)
	Container Height	214 ±2mm (8.35 inches)
	Total Height (with Terminal)	219 ±2mm (8.66 inches)
Approx Weight	Approx 33.0kg (72.60lbs) ± 2% tolerance	
Terminal	T4 (M8X16) / Torque: 6.6 ~ 8.3Nm	
Container Material	ABS	
Rated Capacity	130.0 AH/6.5A	(20hr , 1.80V/cell, 25°C/77°F)
	125.0 AH/12.5A	(10hr, 1.80V/cell, 25°C/77°F)
	108.0 AH/21.6A	(5hr, 1.75V/cell, 25°C/77°F)
Max. Discharge Current	1300A (5s)	
Internal Resistance	Approx 4.0mΩ	
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±3°C (77°±5°F ) but can work in -15~-50°C (5 ~-122°F)	
Cycle Use	Initial Charging Current less than 36.0A.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.	

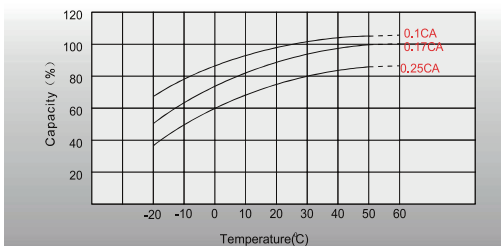
### Applications

- ♦ 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

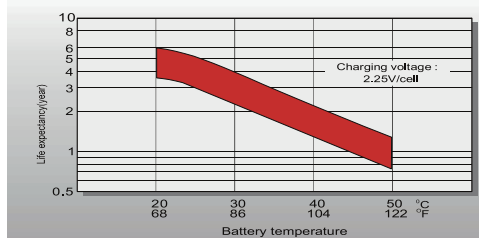


ISO9001 ISO14001

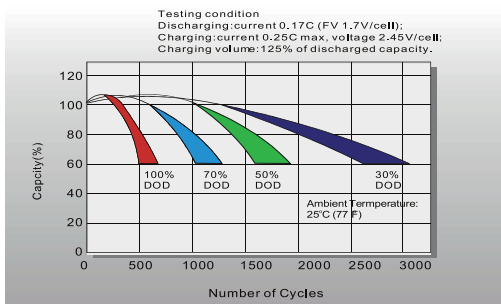
### Temperature Effects in Relation to Battery Capacity



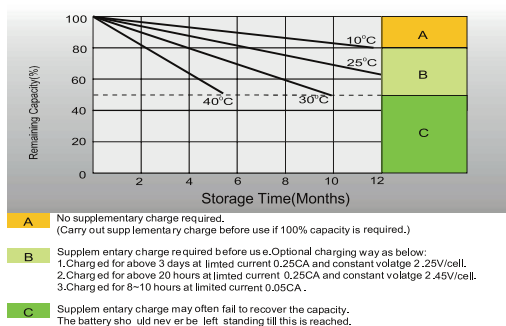
### Effect of Temperature on Long Term Float Life



### Cycle Life in Relation to Depth of Discharge



### Self Discharge Characteristics



Specifications subject to change without prior notice.