

## CML 080 GEL

## Gel Deep-cycle Battery

**mbat**

### Specification

Nominal Voltage	12V	
Nominal Capacity(20Hr)	80Ah	
Dimensions	Length	260±2mm (10.2 inches)
	Width	169±2mm (6.61 inches)
	Container Height	211±2mm (8.19 inches)
	Total Height (with Terminal)	215±2mm (8.43 inches)
Approx Weight	Approx 22.0 kg (47.6lbs) ± 2% tolerance	
Terminal	T3 (M6X16) / Torque: 3.9 ~ 5.4Nm	
Container Material	ABS	
Rated Capacity	80.0AH/4.0A	(20hr , 1.80V/cell, 25°C/77°F)
	76.0 AH/7.6A	(10hr, 1.80V/cell, 25°C/77°F)
	72.0AH/14.4A	(5hr, 1.75V/cell, 25°C/77°F)
Max. Discharge Current	840A (5s)	
Internal Resistance	Approx 6.6mΩ	
Operating Temp.Range	Discharge : -15~50°C (5~122°F)	
	Charge : 0~40°C (32~104°F)	
	Storage : -15~40°C (5~104°F)	
Nominal Operating Temp. Range	25±3°C (77±5°F)	
Cycle Use	Initial Charging Current less than 21.0A.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.	

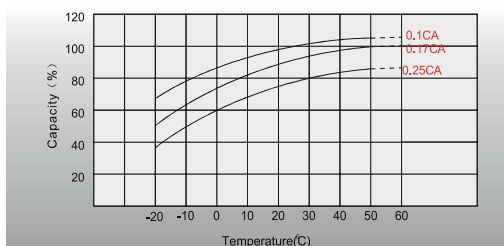
### Applications

- ♦ 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
- ♦ Communication power supply
- ♦ DC power supply

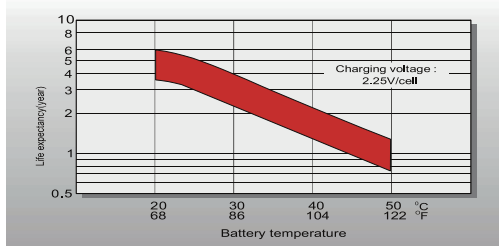


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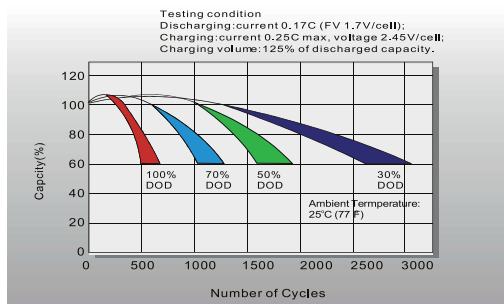
### Temperature Effects in Relation to Battery Capacity



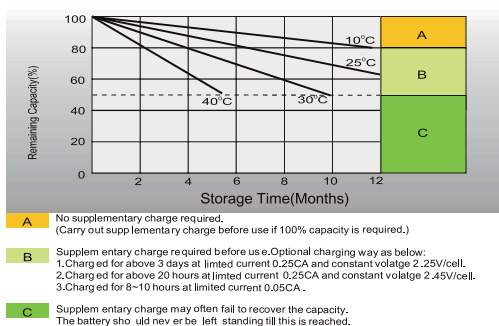
### Effect of Temperature on Long Term Float Life



### Cycle Life in Relation to Depth of Discharge



### Self Discharge Characteristics



Specifications subject to change without prior notice.