

CROWN

MICRO

Carry On

Product Design By:
Crown Micro Global

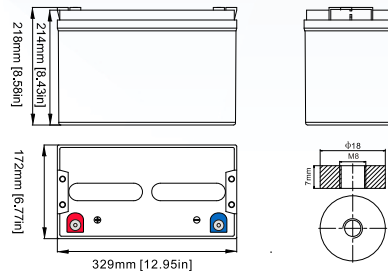
CMBT-G-12-100

GEL BATTERY Energy Storage Battery
VRLAAGM | Non-spillable | Maintenance Free

SPECIFICATION

Nominal Voltage	12V (6 cells)
Nominal Capacity	
10-Hr Rate to 10.8V @ 25°C(77°F)	100Ah
Approximate Net Weight	29.3 kg (64.6 lbs) (±2%)
Max. Charging Current	25A
Cycle Use Charging	14.4V @25°C(77°F)
Terminal	M8-Φ18
Operating Temperature Range	-35°C to 60°C(-31°F~140°F)
Advice operating temperature	15°C~25°C(59°F~77°F)
Self Discharge	
1 month	97%
3 month	91%
6 month	83%
HUAFU CNJ series deep cycle gel battery self-discharge <3%/month@25°C(77°F), can be stored up to 6 months at 25°C(77°F) and then a freshening charge is required. If the storage temperature higher than 25°C(77°F), a freshening recharge will be required sooner.	
Case and cover	A.B.S. UL94-V0 Optional.
Design Life time	12 years

DIMENSIONS (mm/in)



FEATURE

- Specifically designed for Solar and energy storage applications
- Use multiple rare-earth alloy of independent intellectual property right and special lead paste formulations
- Usage of imported low -resistant raw materials and advanced process
- Patented nanometer level gel electrolyte
- Low self-discharge rate, better deep discharge tolerance, strong recover capability of capacity
- Wide temperature range
- Valve regulated, maintenance free non-spillable

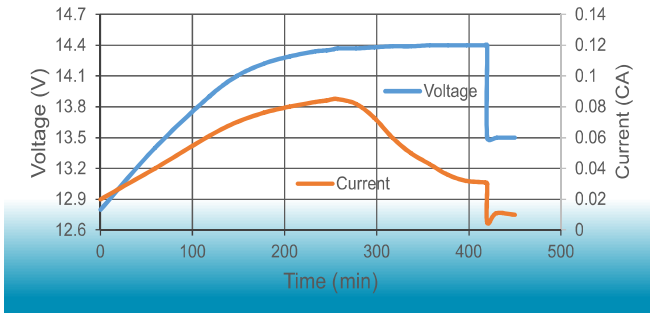
BATTERY CONSTRUCTION

Positive	Negative Plate	Container	Cover	Safety valve	Terminal	Separator	Electrolyte
Lead dioxide	Lead	ABS	ABS	Rubber	Copper	AGM	Gel

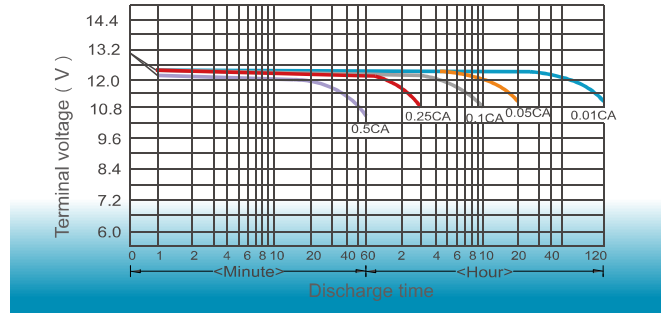


Specification:

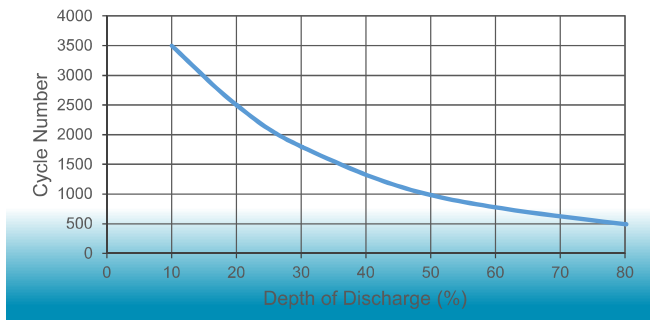
Charge Curve (solar panel)



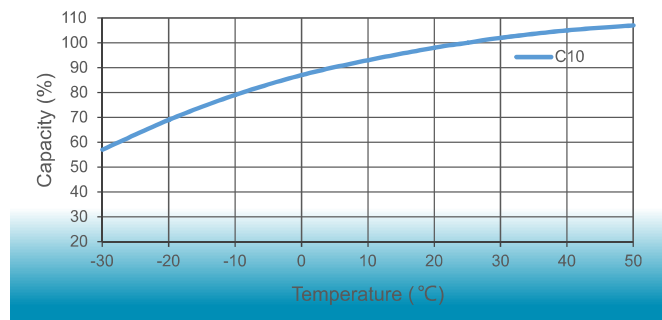
Discharge Curve (25 °C)



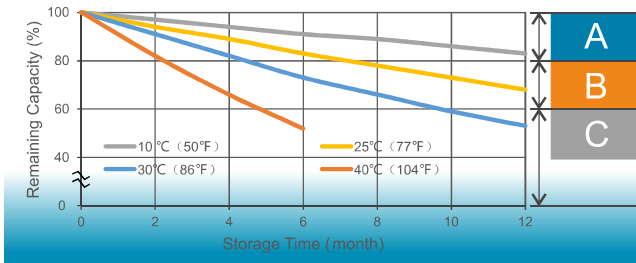
Cycle Life Vs Depth of Discharge



Temperature Vs Battery Capacity

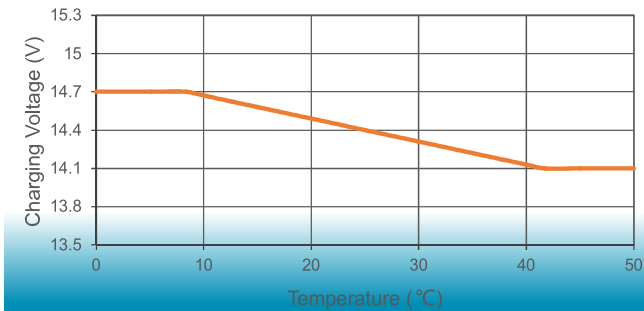


Self Discharge Characteristics



- A** Charging is not necessary unless 100% of capacity is required.
- B** Charging before use is necessary to help recover full capacity.
- C** Charging may fail to restore full capacity. Do not let batteries reach this state.

Charging Voltage VS Temperature



Cycle Use: Apply constant voltage charge 14.4V at 25°C. Initial charging current should be set at less than 0.25C Amps. Switch to float charge to avoid overcharging.

Temperature Compensation: Charging Voltage for both Cyclic and Standby applications should be regulated in relation to ambient temperature. As temperature rises charging voltage should be reduced to prevent overcharge and increased as temperature falls to avoid undercharge. 3 mV/cell/°C.

APPLICATION

A whole range of CYCLIC applications including but not limited to:

- Solar / wind system
- Medical equip
- Lighting system
- Inverter
- RV
- Power Station



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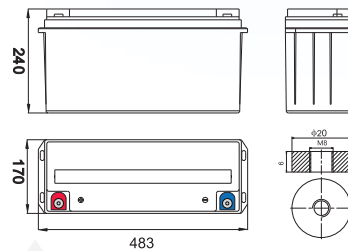
CMBT-G-12-150

GEL BATTERY Energy Storage Battery
VRLAAGM | Non-spillable | Maintenance Free

SPECIFICATION

Nominal Voltage	12V(6cells)
Nominal Capacity	
10-hr. (15.0Ato10.8V)	150Ah
5-hr. (25.0Ato10.8V)	125Ah
3-hr. (37.7.0Ato10.8V)	113Ah
1-hr. (83.0Ato10.5V)	83Ah
Approximate Net Weight	41.0kg(±2%)
Max. Charging Current	37.5A
Cycle Use Charging	14.4V@25 °C
Operating Temperature Range	-35°C to 60°C
Advice operating temperature	25°C±3°C
Self Discharge	
1 month	97%
3 month	93%
6 month	87%
Crown series's self discharge < 3%/month at 25 °C. The storage period may up to 6 months at 25°C and then a freshening charge is required.	
Case and cover	A.B.S. UL94-V0 Optional.
Design Lifetime	12 years

DIMENSIONS(mm)



FEATURE

- Specifically designed for solar and energy storage applications
- Use multiple rare-earth alloy of independent intellectual property right and special lead paste formulations
- Usage of imported low-resistant raw materials and advanced process
- Patented nanometer level gel electrolyte
- Low self-discharge rate, better deep discharge tolerance, strong recover capability of capacity
- Wide temperature range
- Valve regulated, maintenance free non-spillable

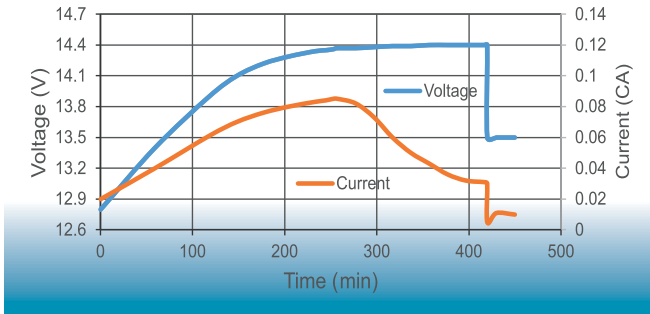
BATTERY CONSTRUCTION

Positive	Negative Plate	Container	Cover	Safety valve	Terminal	Separator	Electrolyte
Lead dioxide	Lead	ABS	ABS	Rubber	Copper	AGM	Gel

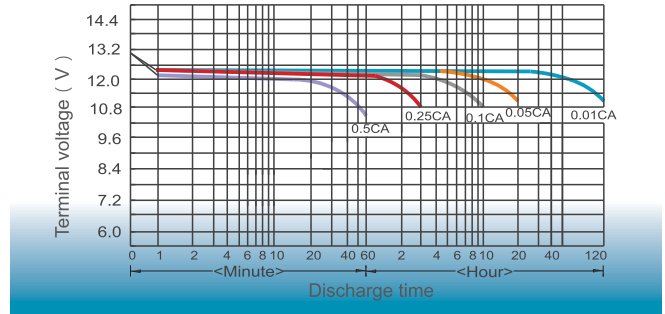


Specification:

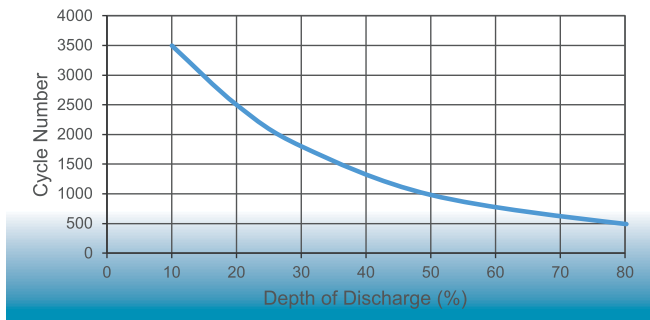
Charge Curve (solar panel)



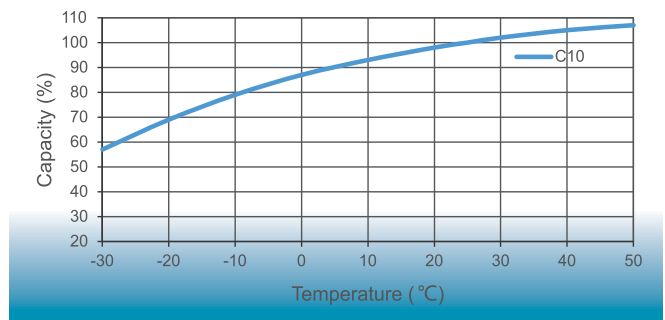
Discharge Curve (25 °C)



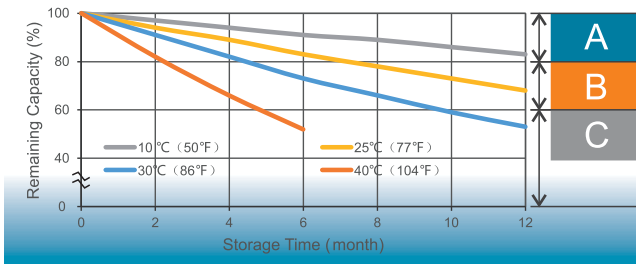
Cycle Life Vs Depth of Discharge



Temperature Vs Battery Capacity

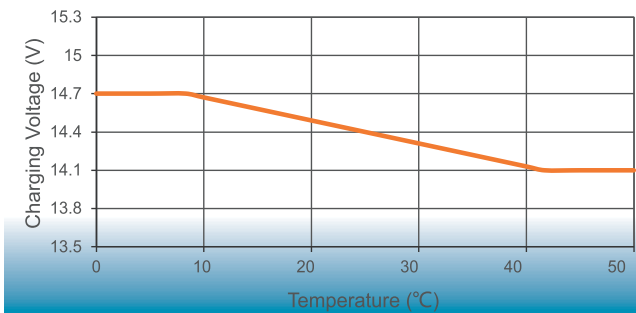


Self Discharge Characteristics



- A** Charging is not necessary unless 100% of capacity is required.
- B** Charging before use is necessary to help recover full capacity.
- C** Charging may fail to restore full capacity. Do not let batteries reach this state.

Charging Voltage VS Temperature



Cycle Use: Apply constant voltage charge 14.4V at 25°C. Initial charging current should be set at less than 0.25C Amps. Switch to float charge to avoid overcharging.

Temperature Compensation: Charging Voltage for both Cyclic and Standby applications should be regulated in relation to ambient temperature. As temperature rises charging voltage should be reduced to prevent overcharge and increased as temperature falls to avoid undercharge. 3 mV/cell/°C.

APPLICATION

A whole range of CYCLIC applications including but not limited to:

- Solar / wind system
- Medical equip
- Lighting system
- Inverter
- RV
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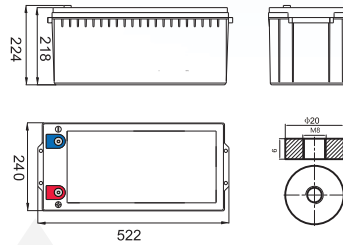
CMBT-G-12-200

GEL BATTERY Energy Storage Battery
VRLAAGM | Non-spillable | Maintenance Free

SPECIFICATION

Nominal Voltage	12V(6cells)
NominalCapacity	
10-hr. (20.0Ato10.8V)	200Ah
5-hr. (33.2Ato10.8V)	166Ah
3-hr. (50.0Ato10.8V)	150Ah
1-hr. (110.0Ato10.5V)	110Ah
ApproximateNetWeight	56.0kg(±2%)
Max.ChargingCurrent	50.0A
CycleUseCharging	14.4V@25 °C
OperatingTemperatureRange	-35°C to 60°C
Adviceoperatingtemperature	25°C±3°C
SelfDischarge	
1month	97%
3month	93%
6month	87%
Crown series'sselfdischarge<3%/monthat25 °C. Thestorageperiodmayupto6monthsat 25°C andthenafresheningchargeisrequired.	
Caseandcover	A.B.S. UL94-V0Optional.
DesignLifetime	12years

DIMENSIONS(mm)



FEATURE

- Specifically designed for solar and energystorageapplications
- Use multiple rare-earth alloy of independent intellectual property right and special lead paste formulations
- Usage of imported low -resistant raw materials and advanced process
- Patented nanometer level gel electrolyte
- Low self-discharge rate, better deep discharge tolerance, strong recover capability of capacity
- Wide temperature range
- Valve regulated, maintenance free non-spillable

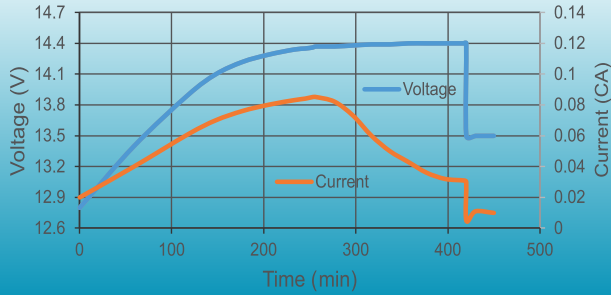
BATTERY CONSTRUCTION

Positive	Negative Plate	Container	Cover	Safety valve	Terminal	Separator	Electrolyte
Lead dioxide	Lead	ABS	ABS	Rubber	Copper	AGM	Gel

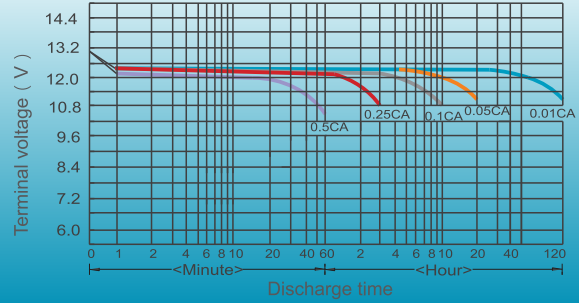


Specification:

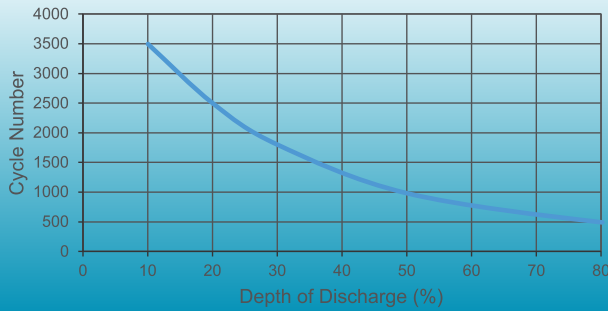
Charge Curve (solar panel)



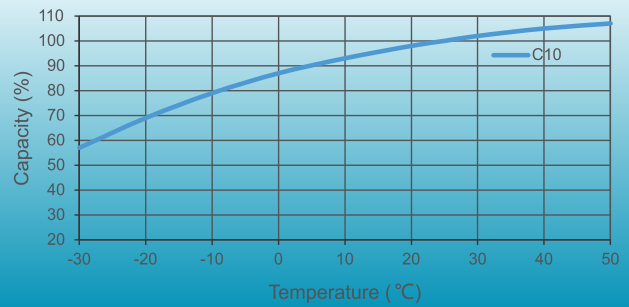
Discharge Curve (25 °C)



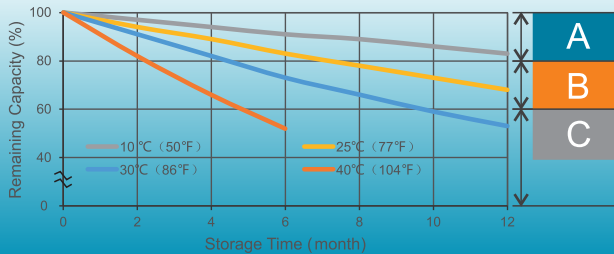
Cycle Life Vs Depth of Discharge



Temperature Vs Battery Capacity

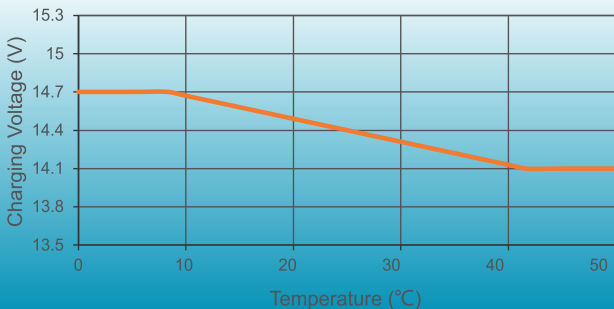


Self Discharge Characteristics



- A** Charging is not necessary unless 100% of capacity is required.
- B** Charging before use is necessary to help recover full capacity.
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Charging Voltage VS Temperature



Cycle Use: Apply constant voltage charge 14.4V at 25°C. Initial charging current should be set at less than 0.25C Amps. Switch to float charge to avoid overcharging.

Temperature Compensation: Charging Voltage for both Cyclic and Standby applications should be regulated in relation to ambient temperature. As temperature rises charging voltage should be reduced to prevent overcharge and increased as temperature falls to avoid undercharge. 3 mV/cell/°C.

APPLICATION

A whole range of CYCLIC applications including but not limited to:

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- Lighting system
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CMBT-G-12-250

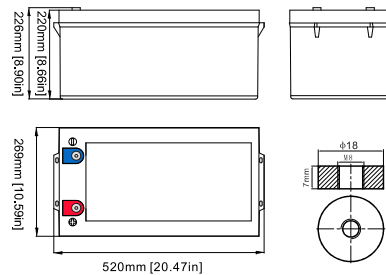
Product Design By:
Crown Micro Global

GEL BATTERY Energy Storage Battery
VRLAAGM | Non-spillable | Maintenance Free

SPECIFICATION

Nominal Voltage	12V (6 cells)
Nominal Capacity	
10-Hr Rate to 10.8V @ 25°C(77°F)	250Ah
Approximate Net Weight	69.3 Kgs (152.7 lbs) (±2%)
Max. Charging Current	62.5A
Cycle Use Charging	14.4V @25°C(77°F)
Terminal	M8-Φ18
Operating Temperature Range	-35°C to 60°C(-31°F~140°F)
Advice operating temperature	15°C~25°C(59°F~77°F)
Self Discharge	
1 month	97%
3 month	91%
6 month	83%
CROWN CMBT series deep cycle gel battery self-discharge <3%/month@25°C(77°F), can be stored up to 6 months at 25°C(77°F) and then a freshening charge is required. If the storage temperature higher than 25°C(77°F), a freshening recharge will be required sooner.	
Case and cover	A.B.S. UL94-V0 Optional.
Design Life time	12 years

DIMENSIONS (mm/in)



FEATURE

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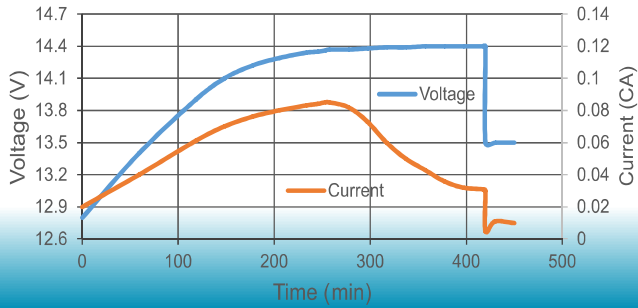


BATTERY CONSTRUCTION

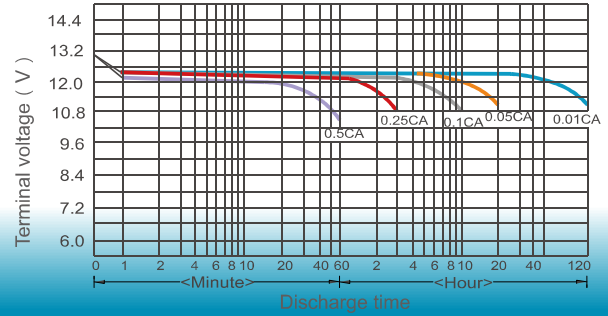
Positive	Negative Plate	Container	Cover	Safety valve	Terminal	Separator	Electrolyte
Lead dioxide	Lead	ABS	ABS	Rubber	Copper	AGM	Gel

Specification:

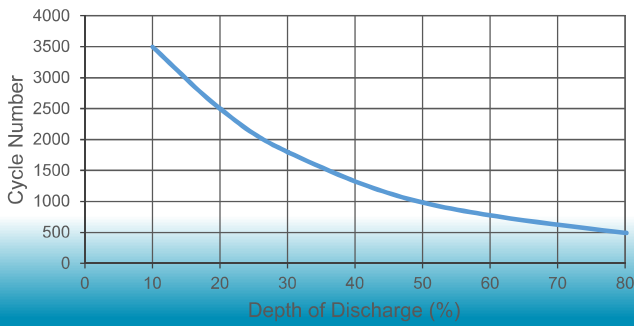
Charge Curve (solar panel)



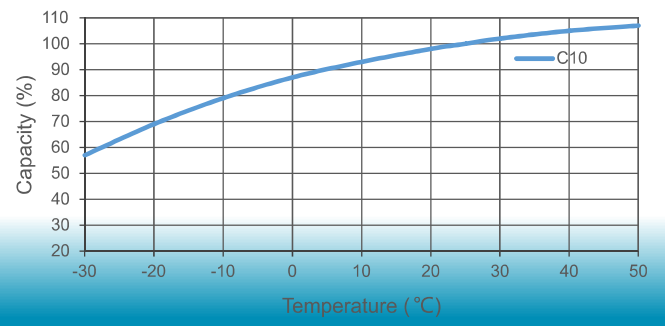
Discharge Curve (25 °C)



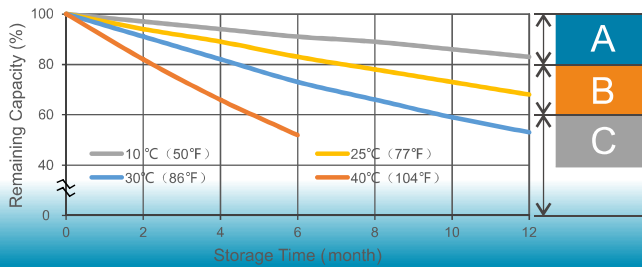
Cycle Life Vs Depth of Discharge



Temperature Vs Battery Capacity

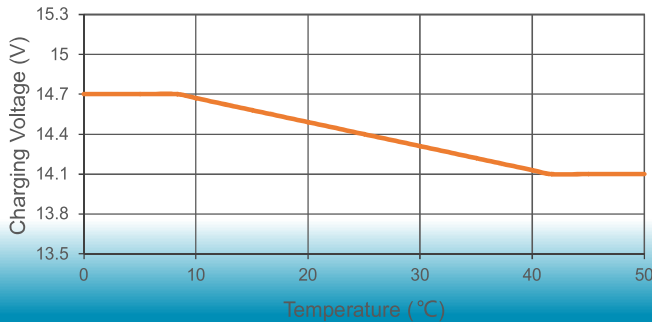


Self Discharge Characteristics



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- B** Charging before use is necessary to help recover full capacity.
- C** Charging may fail to restore full capacity. Do not let batteries reach this state.

Charging Voltage VS Temperature



Cycle Use: Apply constant voltage charge 14.4V at 25°C. Initial charging current should be set at less than 0.25C Amps. Switch to float charge to avoid overcharging.

Temperature Compensation: Charging Voltage for both Cyclic and Standby applications should be regulated in relation to ambient temperature. As temperature rises charging voltage should be reduced to prevent overcharge and increased as temperature falls to avoid undercharge. 3 mV/cell/°C.