

GEL 2V 400Ah



Specification	
Cells Per Unit	1
Voltage Per Unit	2
Capacity	400Ah@10hr-rate to 1.80V per cell @25°C
Weight	Approx. 26.0 Kg (Tolerance±2%)
Internal Resistance	Approx. 1.0 mΩ
Terminal	F10(M8)
Max. Discharge Current	2000A(5 sec)
Design Life	20 years (floating charge)
Maximum Charging Current	80.0A
Reference Capacity	C3 312.0AH C5 346.0AH C10 400.0AH C20 424.0AH
Float Charging Voltage	2.27 V~2.30 V @ 25°C Temperature Compensation: -3mV/°C/Cell
Cycle Use Voltage	2.37 V~2.40 V @ 25°C Temperature Compensation: -4mV/°C/Cell
Operating Temperature Range	Discharge: -40°C~60°C Charge: -20°C~50°C Storage: -40°C~60°C
Normal Operating Temperature Range	25°C±5°C
Self Discharge	Less than 3% at 25°C per month
Container Material	A.B.S. UL94-HB, UL94-V0 Optional.



- ### Application
- Solar/Wind Power System
 - Uninterruptible Power Supplies (UPS)
 - Electric Power Systems (EPS)
 - Emergency Backup Power Supplies
 - Communication Power Supplies
 - DC Power Supplies
 - Auto Control System

Dimensions

Length	211±1mm (8.31 inches)
Width	176±1mm (6.93 inches)
Height	330±1mm (13.0 inches)
Total Height	353±1mm (13.9 inches)
Terminal	Value
M5	6~7 N*m
M6	8~10 N*m
M8	10~12 N*m

Unit: mm

Constant Current Discharge Characteristics : A(25°C)

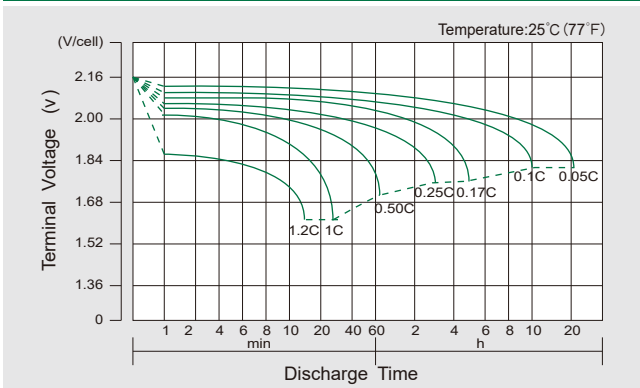
F.V/Time	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
1.60V	505.2	391.2	261.6	160.4	117.2	90.0	72.0	53.2	41.6	22.4
1.65V	480.4	375.6	258.4	154.8	112.4	88.0	71.2	50.8	41.2	22.0
1.70V	480.4	354.0	253.6	152.4	109.6	86.0	70.0	50.0	40.8	21.6
1.75V	397.6	318.4	233.2	144.0	104.0	83.2	69.2	48.4	40.4	21.2
1.80V	342.4	290.0	220.0	137.2	100.0	80.0	68.0	47.6	40.0	20.8
1.85V	289.6	261.2	203.2	129.6	95.2	78.0	64.0	45.2	38.8	19.6

Constant Power Discharge Characteristics : WPC(25°C)

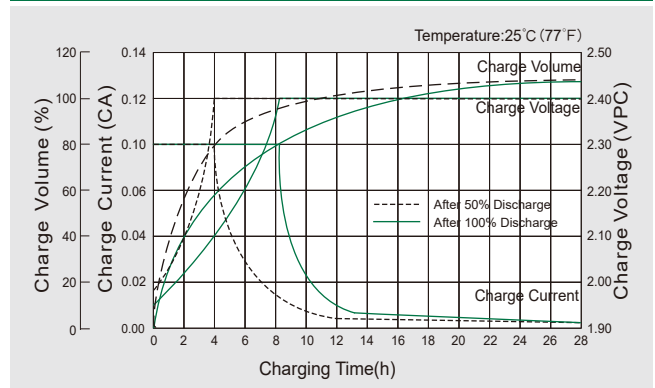
F.V/Time	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
1.60V	884.4	712.8	487.2	300.4	218.4	158.4	142.8	101.2	82.8	44.8
1.65V	861.2	708.8	484.4	296.0	214.0	156.0	141.6	100.4	82.0	44.0
1.70V	813.6	670.8	479.6	291.6	210.8	155.6	140.0	98.8	81.6	43.2
1.75V	724.4	604.8	450.0	276.4	203.2	147.6	138.0	95.6	80.8	42.4
1.80V	627.2	551.6	428.0	263.6	194.8	147.2	135.6	94.0	80.0	41.6
1.85V	534.8	497.2	396.8	249.6	185.6	136.4	128.0	89.2	77.6	39.2

Note: The above characteristics data are average values obtained within three charge/discharge cycle not the minimum values.

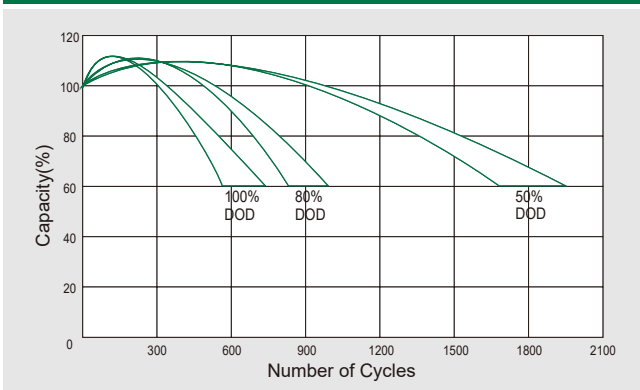
Discharge Characteristics Curve



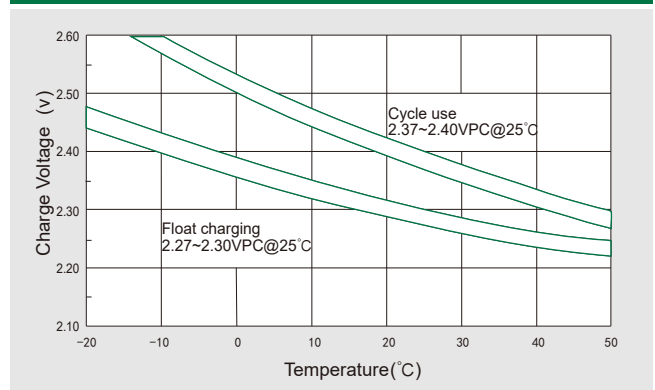
Charge Characteristic Curve for Cycle Use(IU)



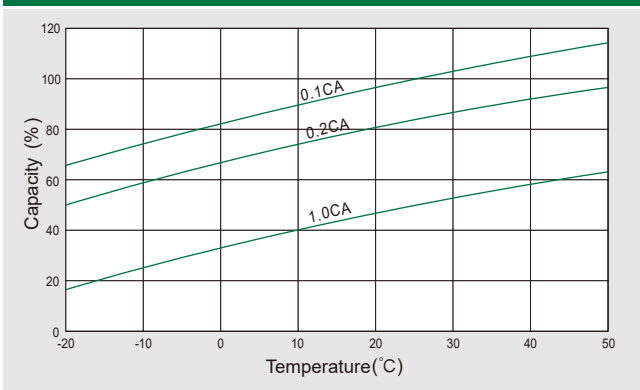
Cycle Life in Relation to Depth of Discharge



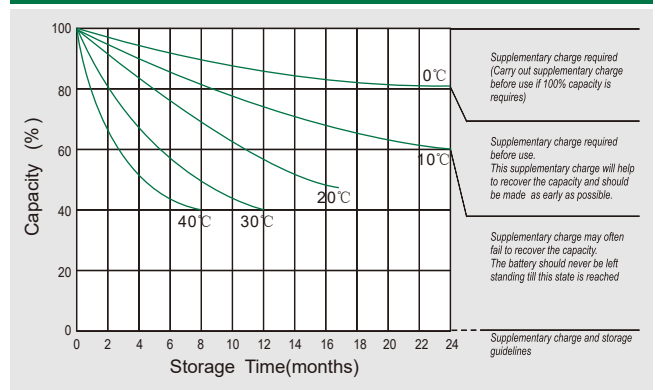
Relationship Between Charging Voltage and Temperature



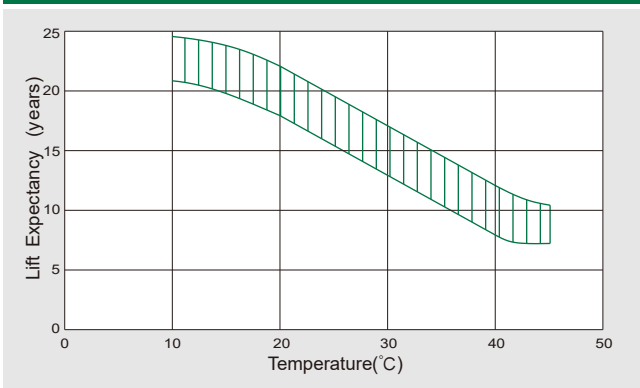
Temperature Effects on Capacity



Storage Characteristics



Effect of Temperature on Long Term Life



Relationship of OCV And State of Charge(20°C)

