

# GEL 2V 600Ah



## Specification

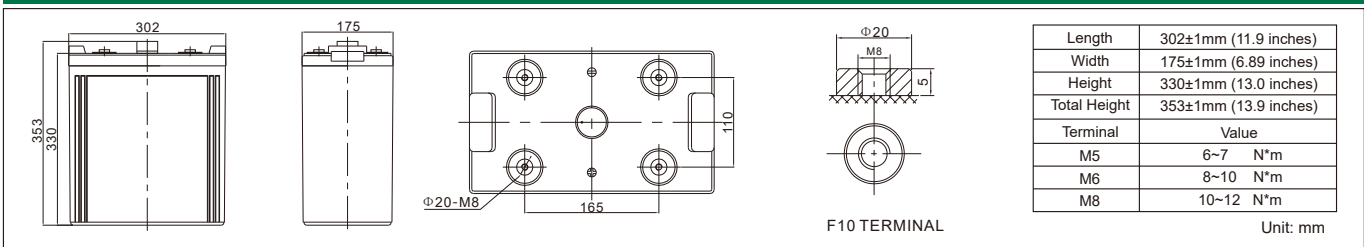
Cells Per Unit	1
Voltage Per Unit	2
Capacity	600Ah@10hr-rate to 1.80V per cell @25°C
Weight	Approx. 37.0 Kg (Tolerance±2%)
Internal Resistance	Approx. 0.63 mΩ
Terminal	F10(M8)
Max. Discharge Current	2400A(5 sec)
Design Life	20 years (floating charge)
Maximum Charging Current	120.0A
Reference Capacity	C3 468.0AH C5 519.0AH C10 600.0AH C20 636.0AH
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



## Constant Current Discharge Characteristics : A(25°C)

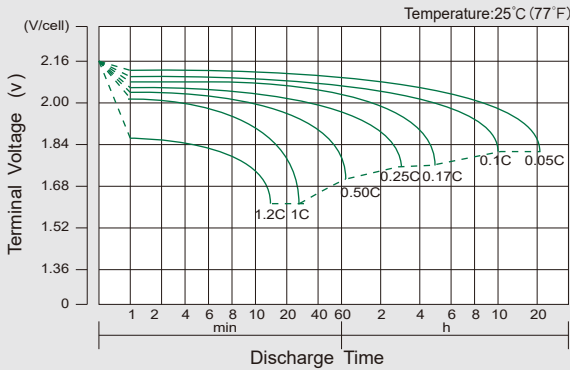
F.V/Time	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
1.60V	757.8	586.8	392.4	240.6	175.8	135.0	108.0	79.8	62.4	33.6
1.65V	720.6	563.4	387.6	232.2	168.6	132.0	106.8	76.2	61.8	33.0
1.70V	672.0	531.0	380.4	228.6	164.4	129.0	105.0	75.0	61.2	32.4
1.75V	596.4	477.6	349.8	216.0	156.0	124.8	103.8	72.6	60.6	31.8
1.80V	513.6	435.0	330.0	205.8	150.0	120.0	102.0	71.4	60.0	31.2
1.85V	434.4	391.8	304.8	194.4	142.8	117.0	96.0	67.8	58.2	29.4

## Constant Power Discharge Characteristics : WPC(25°C)

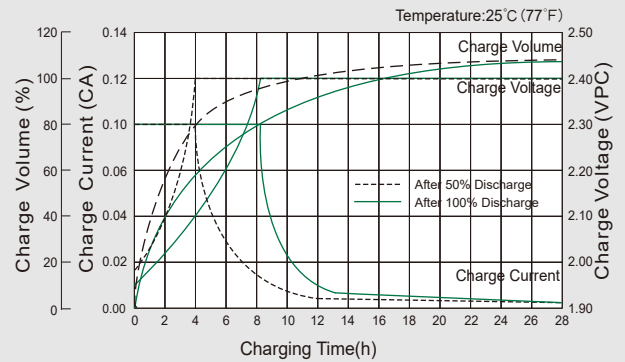
F.V/Time	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
1.60V	1327	1069	730.8	450.6	327.6	237.6	214.2	151.8	124.2	67.2
1.65V	1292	1063	726.6	444.0	321.0	234.0	212.4	150.6	123.0	66.0
1.70V	1220	1006	719.4	437.4	316.2	233.4	210.0	148.2	122.4	64.8
1.75V	1087	907.2	675.0	414.6	304.8	221.4	207.0	143.4	121.2	63.6
1.80V	940.8	827.4	642.0	395.4	292.2	220.8	203.4	141.0	120.0	62.4
1.85V	802.2	745.8	595.2	374.4	278.4	204.6	192.0	133.8	116.4	58.8

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

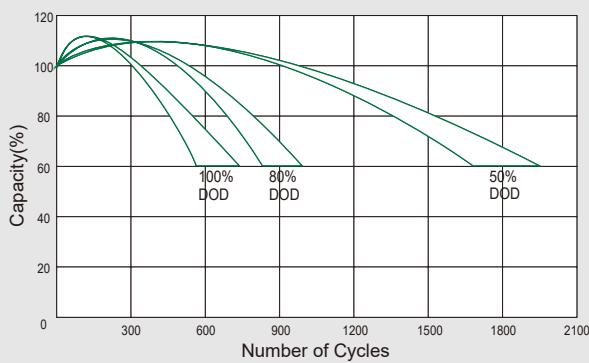
## Discharge Characteristics Curve



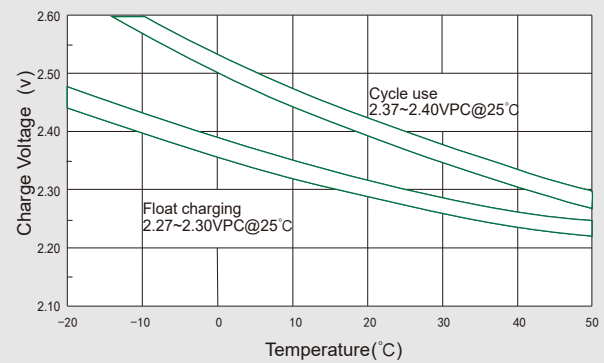
## Charge Characteristic Curve for Cycle Use(IU)



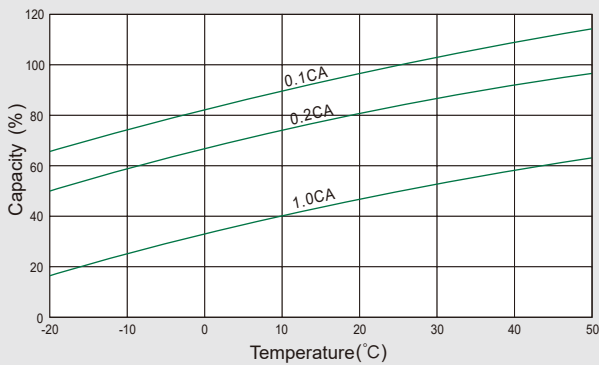
## Cycle Life in Relation to Depth of Discharge



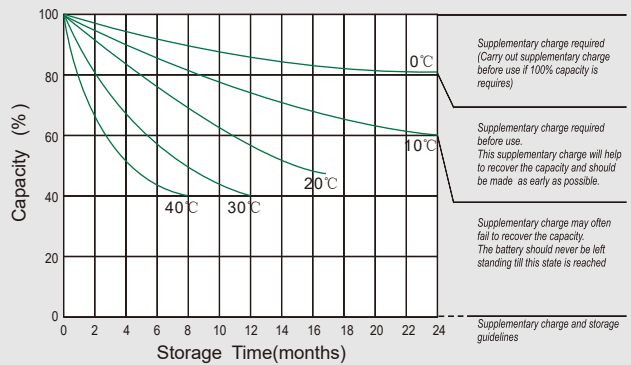
## Relationship Between Charging Voltage and Temperature



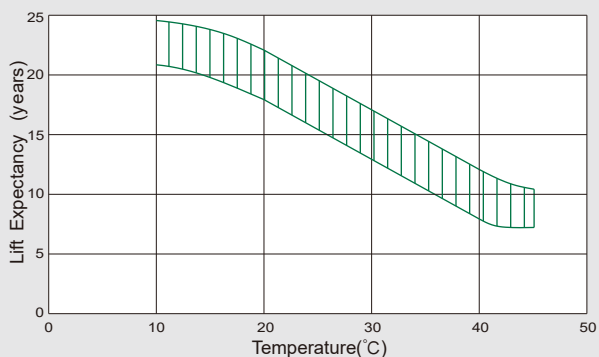
## Temperature Effects on Capacity



## Storage Characteristics



## Effect of Temperature on Long Term Life



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

