

# GEL 2V 3000Ah



## Specification

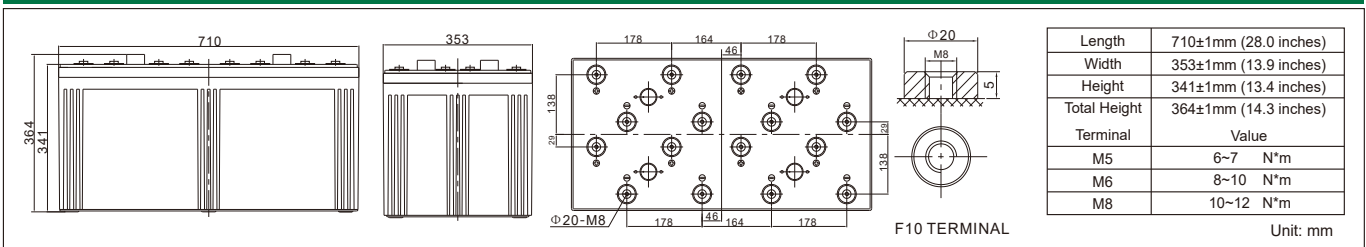
Cells Per Unit	1
Voltage Per Unit	2
Capacity	3000Ah@10hr-rate to 1.80V per cell @25°C
Weight	Approx. 193.0 Kg (Tolerance±1%)
Internal Resistance	Approx. 0.3 mΩ
Terminal	F10(M8)
Max. Discharge Current	8000A (5 sec)
Design Life	20 years (floating charge)
Maximum Charging Current	600.0A
Reference Capacity	C3 2340.0AH C5 2595.0AH C10 3000.0AH C20 3180.0AH
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)

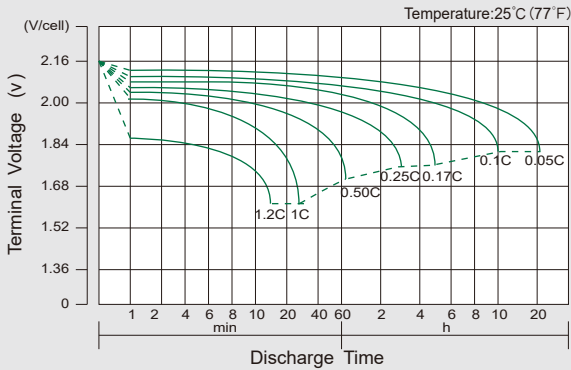
F.V/Time	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
1.60V	3789	2934	1962	2976	879.0	675.0	540.0	399.0	312.0	168.0
1.65V	3603	2817	1938	1161	843.0	660.0	534.0	381.0	309.0	165.0
1.70V	3360	2655	1902	1143	822.0	645.0	525.0	375.0	306.0	162.0
1.75V	2982	2388	1749	1080	780.0	624.0	519.0	363.0	303.0	159.0
1.80V	2568	2175	1650	1029	750.0	600.0	510.0	357.0	300.0	156.0
1.85V	2172	1959	1524	972.0	714.0	585.0	480.0	339.0	291.0	147.0

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

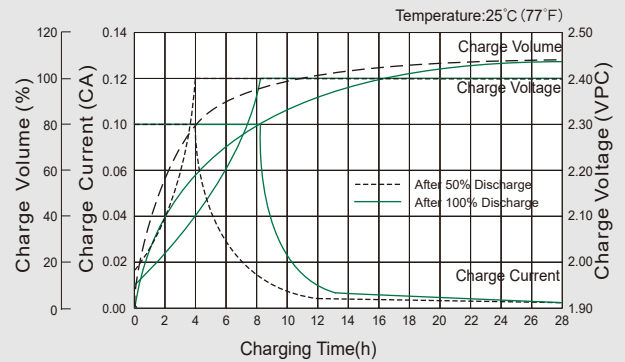
F.V/Time	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
1.60V	6633	5346	3654	2253	1638	1188	1071	759.0	621.0	336.0
1.65V	6459	5316	3633	2220	1605	1170	1062	753.0	615.0	330.0
1.70V	6102	5031	3597	2187	1581	1167	1050	741.0	612.0	324.0
1.75V	5433	4536	3375	2073	1524	1107	1035	717.0	606.0	318.0
1.80V	4704	4137	3210	1977	1461	1104	1017	705.0	600.0	312.0
1.85V	4011	3729	2976	1872	1392	1023	960.0	669.0	582.0	294.0

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

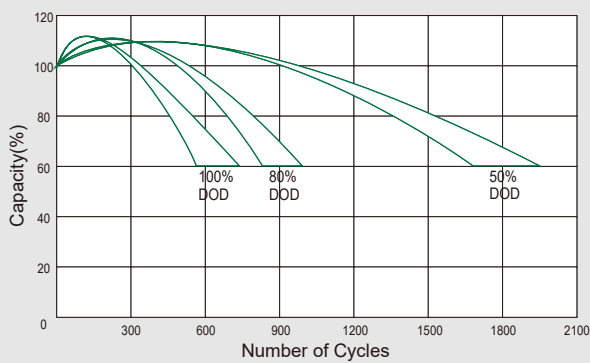
## Discharge Characteristics Curve



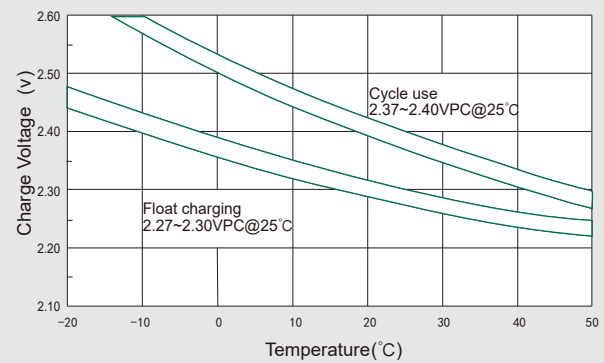
## Charge Characteristic Curve for Cycle Use(IU)



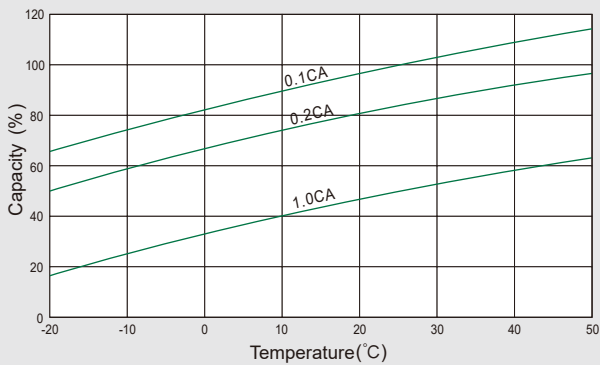
## Cycle Life in Relation to Depth of Discharge



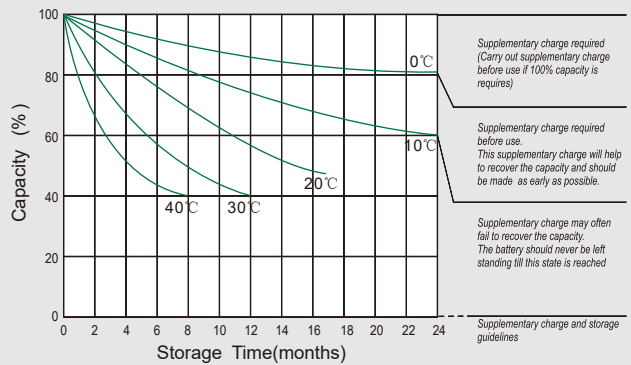
## Relationship Between Charging Voltage and Temperature



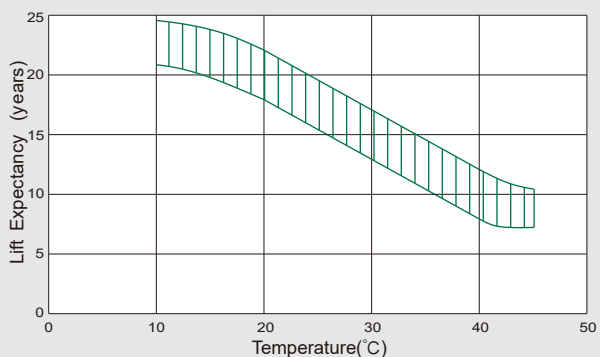
## Temperature Effects on Capacity



## Storage Characteristics



## Effect of Temperature on Long Term Life



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

