

# GLORY ASDC2-2000 (2V2000Ah)

Deep Cycle

## Specification

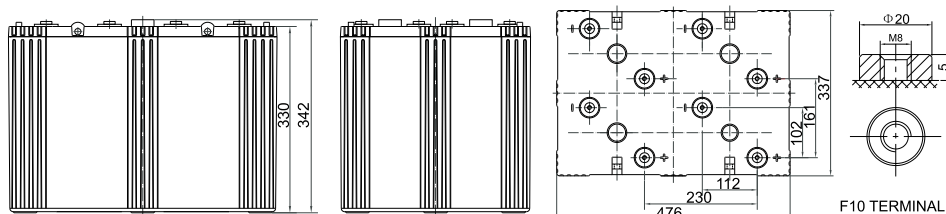
<b>Cells Per Unit</b>	1
<b>Voltage Per Unit</b>	2
<b>Capacity</b>	2000Ah@10hr-rate to 1.80V per cell @25°C
<b>Weight</b>	Approx. 116.0 Kg (Tolerance ±3%)
<b>Internal Resistance</b>	Approx. 0.4 mΩ
<b>Terminal</b>	F10(M8)
<b>Max. Discharge Current</b>	7000A (5 sec)
<b>Design Life</b>	20 years (floating charge)
<b>Max. Charging Current</b>	400.0 A
<b>Reference Capacity</b>	C1 1222.0Ah C3 1548.0Ah C5 1745.0Ah C10 2000.0Ah
<b>Float Charging Voltage</b>	2.27 V~2.30 V @ 25°C Temperature Compensation: -3mV/°C/Cell
<b>Cycle Use Voltage</b>	2.43 V~2.47 V @ 25°C Temperature Compensation: -4mV/°C/Cell
<b>Operating Temperature Range</b>	Discharge: -20°C~60°C Charge: 0°C~50°C Storage: -20°C~60°C
<b>Normal Operating Temperature Range</b>	25°C ±5°C
<b>Self Discharge</b>	TECHNOPOWER Valve Regulated Lead Acid (VRLA) batteries can be stored for up to 6 months at 25°C and then recharging is recommended. Monthly Self-discharge ratio is less than 3% at 25°C. Please charged batteries before using.
<b>Container Material</b>	A.B.S. UL94-HB, UL94-V0 Optional.



DC (Deep Cycle) series batteries provide superior high integrity and reliability. It is specially designed for frequent cyclic charge and discharge. By using strong grids, thick plate and specially active material are designed for repeated deep-discharge applications. The DC series batteries offer 30% more cyclic life than the standby series. It is suitable for solar and wind renewable energy storage, mobility and medical equipment, V, telecom, broadband and cable TV, UPS systems etc.



## Dimensions



Length	476±2mm (18.7 inches)
Width	337±2mm (13.3 inches)
Height	330±2mm (13.0 inches)
Total Height	342±2mm (13.5 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	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR
1.60V	1915	1222	752.5	564.1	454.1	377.3	253.6	211.0
1.65V	1838	1180	728.5	546.7	441.8	367.5	250.7	208.4
1.70V	1757	1142	704.5	531.8	429.8	358.0	246.9	205.3
1.75V	1680	1100	679.9	516.0	418.8	349.0	243.5	202.6
1.80V	1605	1058	655.6	500.0	406.7	340.0	239.3	200.0
1.85V	1383	948.8	600.7	462.2	378.1	317.0	224.7	188.3

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

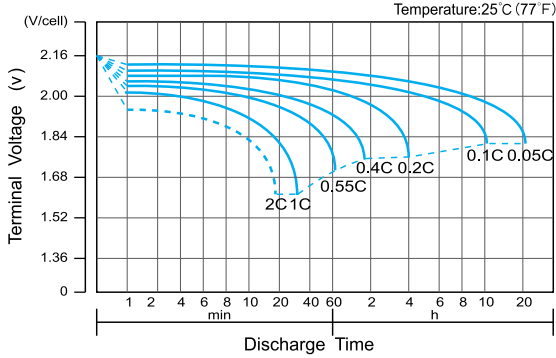
F.V/Time	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR
1.60V	3478	2296	1426	1077	871.8	727.3	495.2	414.8
1.65V	3374	2230	1387	1049	851.3	711.1	490.7	410.3
1.70V	3258	2171	1349	1025	831.3	695.0	484.2	404.6
1.75V	3146	2105	1308	998.2	813.1	679.9	478.5	399.8
1.80V	3037	2036	1268	971.2	792.6	664.7	471.4	395.2
1.85V	2642	1837	1168	901.8	739.5	621.9	443.6	372.6

(Note) The above characteristics data are average values obtained within three charge/discharge cycle not the minimum values. The battery must be fully charged before the capacity test. The C<sub>10</sub> should reach 95% after the first cycle and 100% after the third cycle.

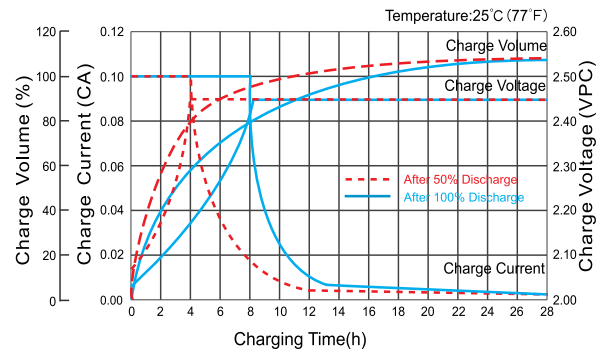
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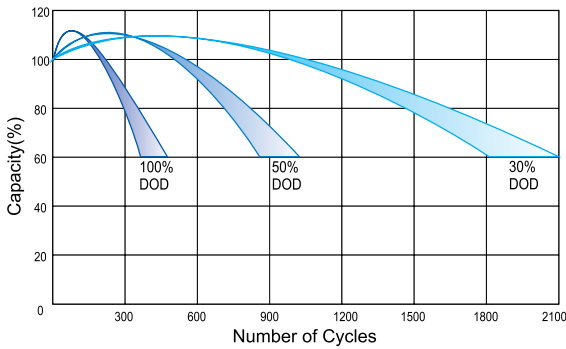
**Discharge Characteristics Curve**



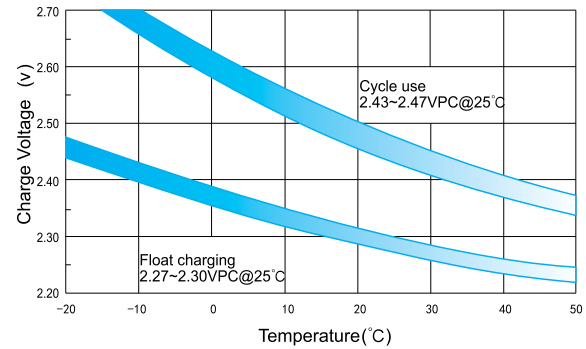
**Charge Characteristic Curve for Cycle Use (IU)**



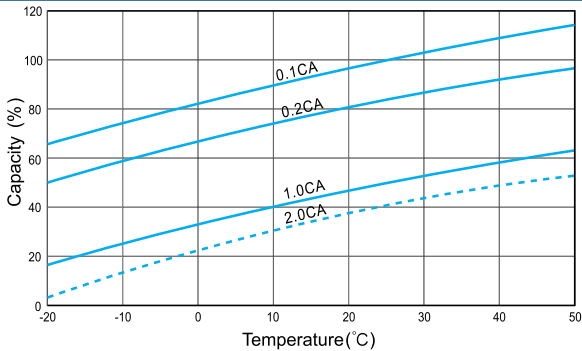
**Cycle Life in Relation to Depth of Discharge**



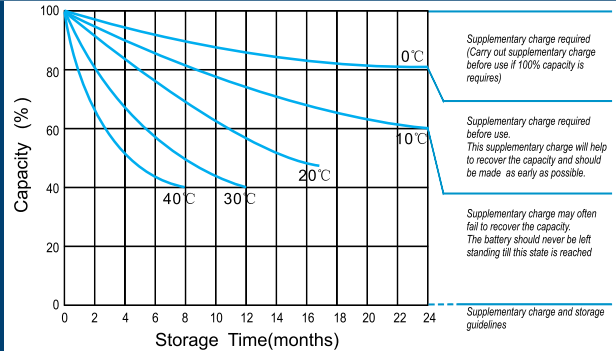
**Relationship Between Charging Voltage and Temperature**



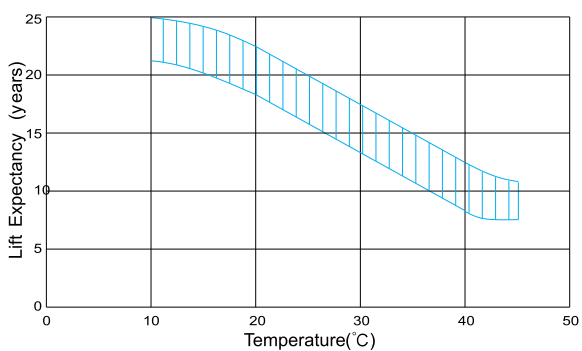
**Temperature Effects on Capacity**



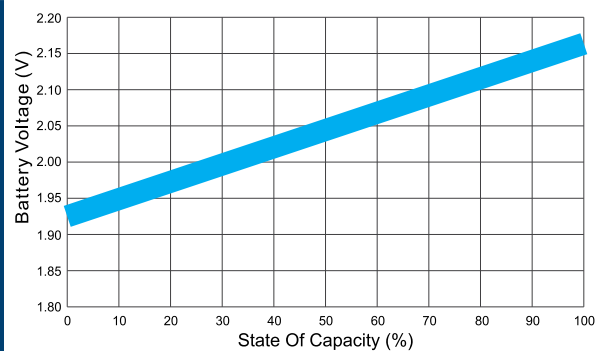
**Storage Characteristics**



**Effect of Temperature on Long Term Life**



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



(Note) All above information shall be changed without prior notice, Ritar reserves the right to explain and update the latest information.