

# DC2-2500 (2V2500Ah)



## Specification

Cells Per Unit	1
Voltage Per Unit	2
Capacity	2500Ah@10hr-rate to 1.80V per cell @25°C
Weight	Approx. 136.0 Kg (Tolerance ±3%)
Internal Resistance	Approx. 0.33 mΩ
Terminal	F10(M8)
Max. Discharge Current	7000A (5 sec)
Design Life	20 years (floating charge)
Max. Charging Current	500.0 A
Reference Capacity	C1 1527.0Ah C3 1935.0Ah C5 2181.0Ah C10 2500.0Ah
Float Charging Voltage	2.27 V~2.30 V @ 25°C Temperature Compensation: -3mV/°C/Cell
Cycle Use Voltage	2.43 V~2.47 V @ 25°C Temperature Compensation: -4mV/°C/Cell
Operating Temperature Range	Discharge: -20°C~60°C Charge: 0°C~50°C Storage: -20°C~60°C
Normal Operating Temperature Range	25°C ±5°C
Self Discharge	RITAR 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.
Container Material	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.



ISO 9001



ISO 14001



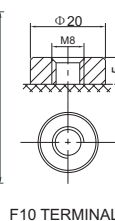
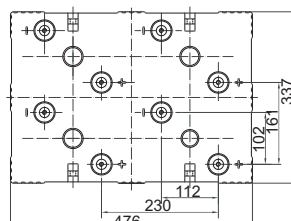
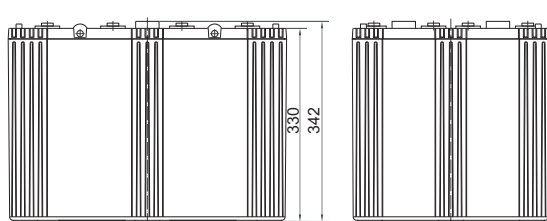
OHSAS 18001



MH 28539



## 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	2394	1527	940.7	705.1	567.6	471.7	317.0	263.7
1.65V	2298	1475	910.6	683.4	552.2	459.4	313.4	260.5
1.70V	2197	1427	880.6	664.8	537.2	447.5	308.6	256.6
1.75V	2099	1375	849.9	645.0	523.5	436.2	304.3	253.2
1.80V	2007	1322	819.4	625.0	508.4	425.0	299.1	250.0
1.85V	1728	1186	750.8	577.8	472.6	396.3	280.8	235.3

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

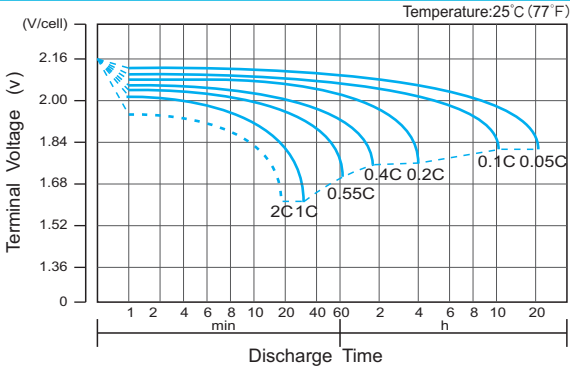
F.V/Time	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR
1.60V	4348	2870	1783	1347	1090	909.2	619.0	518.4
1.65V	4218	2788	1734	1311	1064	888.9	613.4	512.8
1.70V	4072	2714	1686	1281	1039	868.8	605.3	505.8
1.75V	3932	2631	1635	1248	1016	849.8	598.1	499.7
1.80V	3796	2545	1584	1214	990.7	830.9	589.2	494.0
1.85V	3302	2296	1460	1127	924.4	777.4	554.5	465.7

(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.

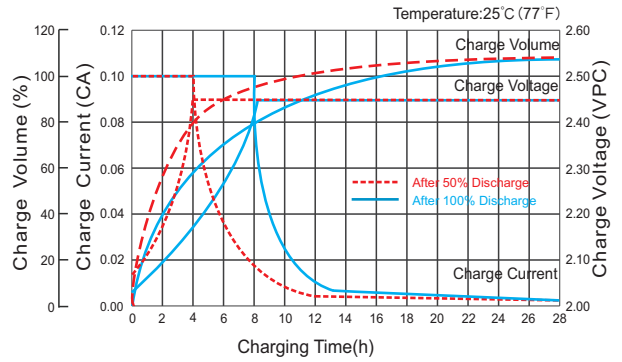
# DC2-2500(2V2500Ah)



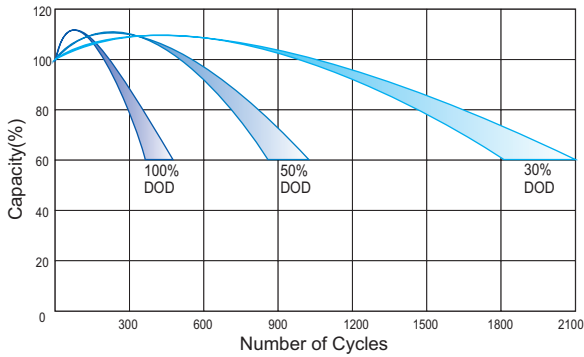
## Discharge Characteristics Curve



## Charge Characteristic Curve for Cycle Use(IU)



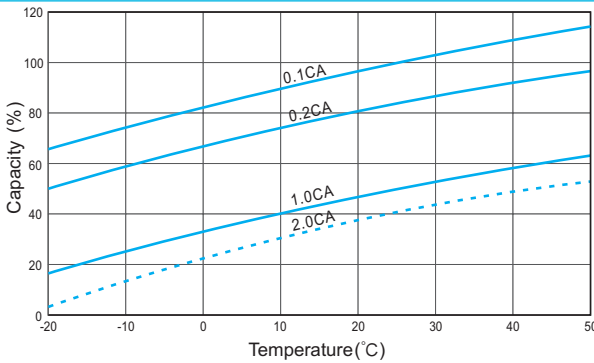
## Cycle Life in Relation to Depth of Discharge



## Relationship Between Charging Voltage and Temperature



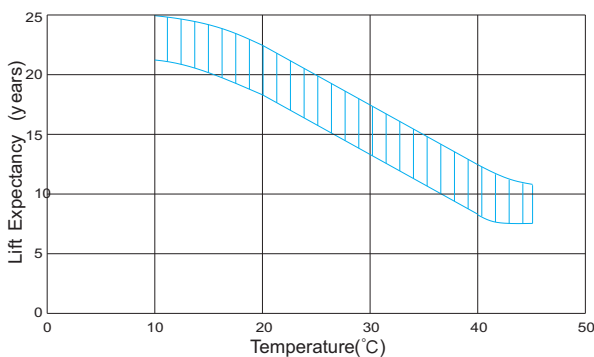
## Temperature Effects on Capacity



## 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.