

DC12-65(12V65Ah)



Specification

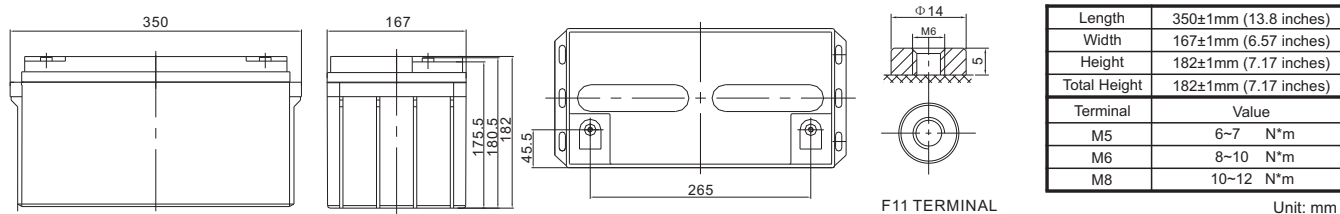


DC (Deep Cycle) series batteries provide superior high integrity and reliability. It is specially designed for frequent cyclic charge and discharge. By using strong grids, thick plate and specially active material are designed for repeated deep-discharge applications. The DC series batteries offers 30%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



Cells Per Unit	6
Voltage Per Unit	12
Capacity	65Ah@10hr-rate to 1.80V per cell @25°C
Weight	Approx. 21.0 Kg (Tolerance ±2%)
Internal Resistance	Approx. 6 mΩ
Terminal	F11(M6)/F5(M8)
Max. Discharge Current	650A (5 sec)
Design Life	12 years (floating charge)
Maximum Charging Current	19.5 A
Reference Capacity	C3 50.8AH C5 57.2AH C10 65.0AH C20 68.4AH
Float Charging Voltage	13.6 V~13.8 V @ 25°C Temperature Compensation: -3mV/°C/Cell
Cycle Use Voltage	14.6 V~14.8 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.

Dimensions



Constant Current Discharge Characteristics : A(25°C)

F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	227.9	167.6	125.1	71.77	41.47	24.29	18.08	14.32	12.07	8.23	6.98	3.56
1.65V	219.4	162.0	121.4	70.27	40.69	23.87	17.80	14.12	11.92	8.14	6.91	3.52
1.70V	208.5	154.7	116.4	68.27	39.65	23.32	17.43	13.86	11.72	8.02	6.81	3.48
1.75V	193.9	145.0	109.8	65.56	38.23	22.57	16.93	13.50	11.44	7.85	6.68	3.42
1.80V	174.5	131.9	100.9	61.85	36.28	21.54	16.23	12.99	11.06	7.61	6.50	3.34
1.85V	148.3	114.1	88.68	56.59	33.50	20.05	15.22	12.27	10.50	7.27	6.24	3.21

Constant Power Discharge Characteristics : WPC(25°C)

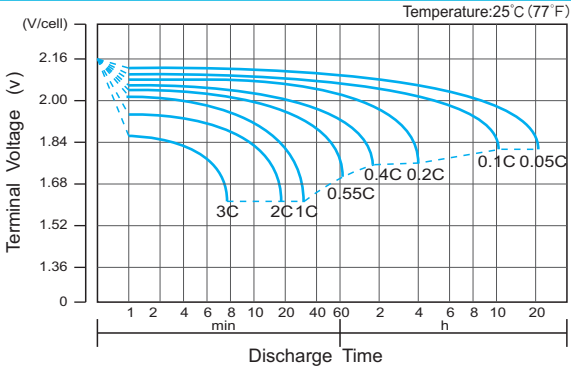
F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	386	285	219	130	77.5	46.0	34.5	27.5	23.3	16.1	13.7	7.00
1.65V	382	283	217	130	76.9	45.6	34.2	27.3	23.1	16.0	13.6	6.95
1.70V	367	273	210	127	75.2	44.7	33.6	26.8	22.7	15.7	13.4	6.87
1.75V	347	260	201	123	72.9	43.4	32.8	26.2	22.3	15.4	13.2	6.76
1.80V	318	241	187	117	69.5	41.6	31.5	25.3	21.6	15.0	12.8	6.60
1.85V	275	212	167	108	64.6	39.0	29.7	24.0	20.6	14.4	12.3	6.37

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

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Discharge Characteristics Curve



Charge Characteristic Curve for Cycle Use(IU)



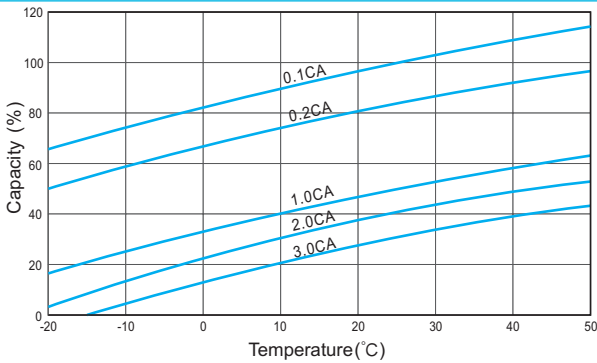
Cycle Life in Relation to Depth of Discharge



Relationship Between Charging Voltage and Temperature



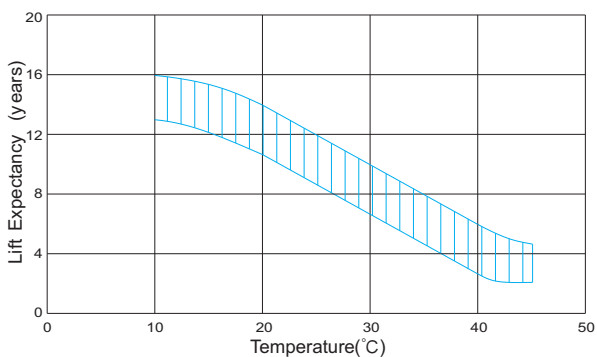
Temperature Effects on Capacity



Storage Characteristics



Effect of Temperature on Long Term Life



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

