

DC12-65(12V65Ah)



Specification

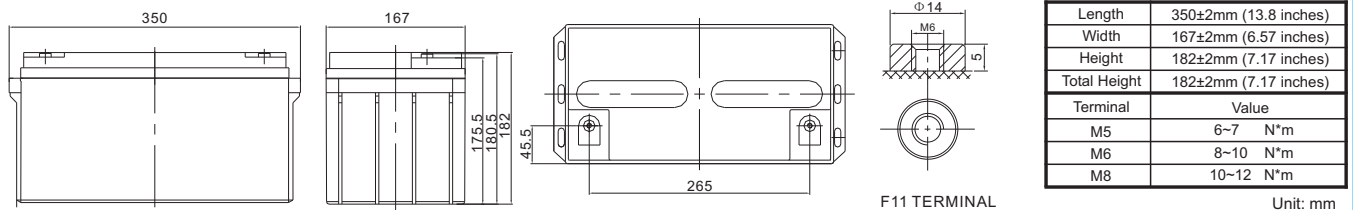
Cells Per Unit	6
Voltage Per Unit	12
Capacity	65Ah@20hr-rate to 1.75V per cell @25°C
Weight	Approx. 21.0 Kg (Tolerance ±2%)
Internal Resistance	Approx. 6 mΩ
Terminal	F11(M6)/F5(M8)
Max. Discharge Current	650A (5 sec)
Design Life	12 years (floating charge)
Maximum Charging Current	19.5 A
Reference Capacity	C3 48.3AH C5 54.4AH C10 61.8AH C20 65.0AH
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.



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



Constant Current Discharge Characteristics : A(25°C)

F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	216.5	159.2	118.8	68.18	39.40	23.07	17.17	13.60	11.46	7.82	6.63	3.38
1.65V	208.5	153.9	115.3	66.75	38.65	22.68	16.91	13.41	11.32	7.74	6.56	3.35
1.70V	198.0	147.0	110.6	64.86	37.67	22.16	16.56	13.16	11.13	7.62	6.47	3.31
1.75V	184.2	137.7	104.3	62.29	36.32	21.45	16.08	12.82	10.87	7.46	6.35	3.25
1.80V	165.8	125.4	95.9	58.75	34.47	20.46	15.42	12.34	10.51	7.23	6.18	3.17
1.85V	140.9	108.4	84.24	53.76	31.83	19.05	14.46	11.66	9.98	6.91	5.93	3.05

Constant Power Discharge Characteristics : WPC(25°C)

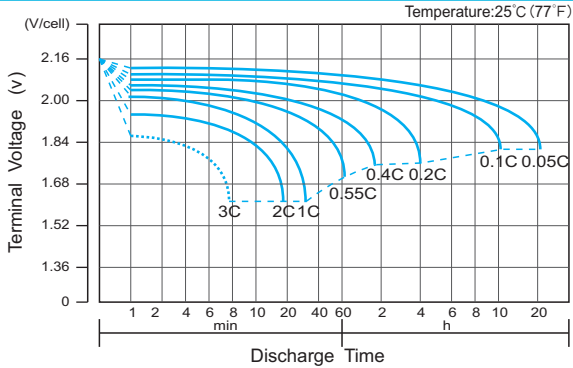
F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	367	271	208	124	73.7	43.7	32.8	26.1	22.1	15.3	13.0	6.65
1.65V	363	269	206	123	73.0	43.3	32.5	25.9	21.9	15.2	12.9	6.60
1.70V	349	259	199	120	71.4	42.4	31.9	25.5	21.6	14.9	12.8	6.53
1.75V	330	247	191	117	69.2	41.3	31.1	24.9	21.2	14.7	12.5	6.42
1.80V	302	229	178	111	66.0	39.6	29.9	24.1	20.5	14.3	12.2	6.27
1.85V	261	202	158	103	61.4	37.0	28.2	22.8	19.6	13.6	11.7	6.05

(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)



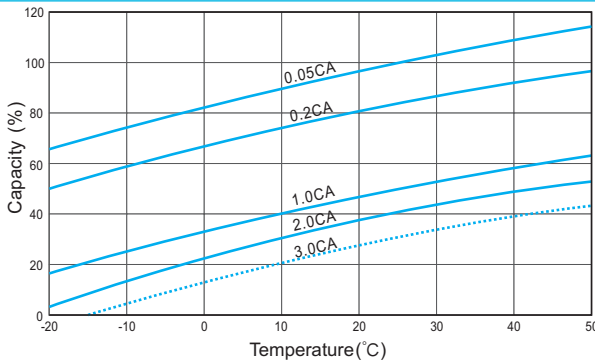
Cycle Life in Relation to Depth of Discharge



Relationship Between Charging Voltage and Temperature



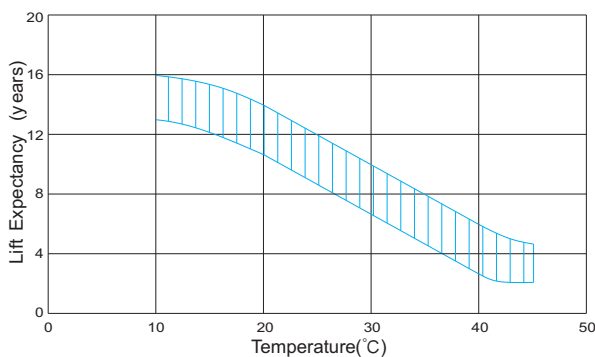
Temperature Effects on Capacity



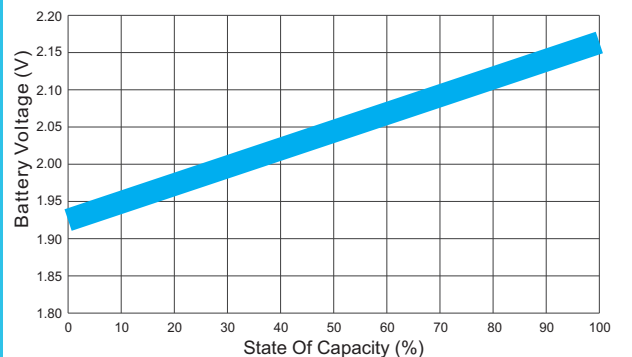
Storage Characteristics



Effect of Temperature on Long Term Life



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



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