DC12-100C(12V100Ah)

RITAR®

Specification

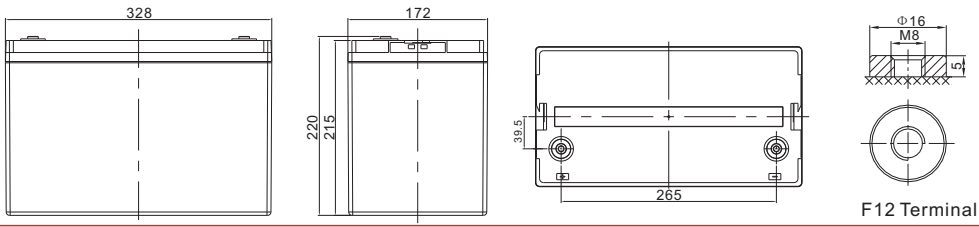
Cells Per Unit	6
Voltage Per Unit	12
Capacity	100Ah@10hr-rate to 1.80V per cell @25℃
Weight	Approx. 32.0 Kg (Tolerance±2%)
Internal Resistance	Approx. 5.5 mΩ
Terminal	F12(M8)/F5(M8)
Max. Discharge Current	1000A (5 sec)
Design Life	15 years (floating charge)
Maximum Charging Current	30.0 A
Reference Capacity	C24 103.7AH C72 116.6AH C100 121.0AH C120 124.8AH
Float Charging Voltage	13.6 V~13.8 V @ 25℃ Temperature Compensation: -3mV/℃/Cell
Cycle Use Voltage	14.6 V~14.8 V @ 25℃ Temperature Compensation: -4mV/℃/Cell
Operating Temperature Range	Discharge: -20℃~60℃ Charge: 0℃~50℃ Storage: -20℃~60℃
Normal Operating Temperature Range	25℃±5℃
Self Discharge	RITAR Valve Regulated Lead Acid (VRLA) batteries can be stored for up to 6 months at 25℃ and then recharging is recommended. Monthly Self-discharge ratio is less than 3% at 25℃.Please charged batteries before using.
Container Material	A.B.S. UL94-HB, UL94-V0 Optional.

DC-C series is lead carbon battery add carbon material with high capacitance or highly conductive into the negative electrode, combine the advantages of lead acid battery and super capacitors, Lead carbon battery provide not only high energy density, but also high power, rapid charge and discharge, longer cycle life. It is suitable for solar and wind renewable energy etc.

ISO 9001 ISO 14001 OHSAS 18001

MH 28539 G4M20206-0910-E-16

Dimensions



Length	328±2mm (12.9 inches)
Width	172±2mm (6.77 inches)
Height	215±2mm (8.46 inches)
Total Height	220±2mm (8.66 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℃)

F.V/Time	1HR	2HR	3HR	4HR	5HR	8HR	10HR	24HR	48HR	72HR	100HR	120HR
1.60V	63.7	38.1	26.3	21.8	18.4	12.5	10.4	4.64	2.47	1.73	1.30	1.12
1.65V	63.4	37.8	26.2	21.7	18.2	12.4	10.3	4.59	2.45	1.72	1.29	1.11
1.70V	62.9	37.5	26.0	21.6	18.1	12.3	10.2	4.55	2.42	1.70	1.28	1.10
1.75V	62.3	37.3	25.9	21.4	17.9	12.2	10.1	4.50	2.40	1.68	1.26	1.09
1.80V	60.8	36.6	25.2	20.9	17.6	12.0	10.0	4.46	2.38	1.67	1.25	1.08
1.85V	57.8	35.0	24.1	19.9	16.8	11.5	9.70	4.32	2.30	1.62	1.21	1.04

Constant Power Discharge Characteristics : WPC(25℃)

F.V/Time	1HR	2HR	3HR	4HR	5HR	8HR	10HR	24HR	48HR	72HR	100HR	120HR
1.60V	122.8	74.9	52.2	43.3	36.5	25.0	20.7	9.24	4.92	3.45	2.59	2.23
1.65V	122.5	74.5	52.2	43.3	36.4	24.8	20.6	9.18	4.89	3.43	2.57	2.21
1.70V	121.5	74.0	52.0	43.2	36.3	24.7	20.4	9.10	4.85	3.40	2.55	2.19
1.75V	120.4	73.5	51.8	42.8	35.9	24.5	20.2	9.01	4.80	3.37	2.53	2.17
1.80V	118.2	72.6	50.4	41.8	35.2	24.1	20.0	8.92	4.75	3.33	2.50	2.15
1.85V	113.1	69.9	48.2	39.8	33.7	23.0	19.4	8.65	4.61	3.23	2.43	2.09

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

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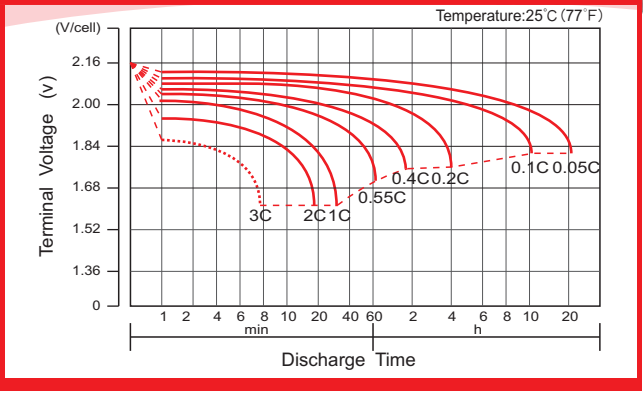
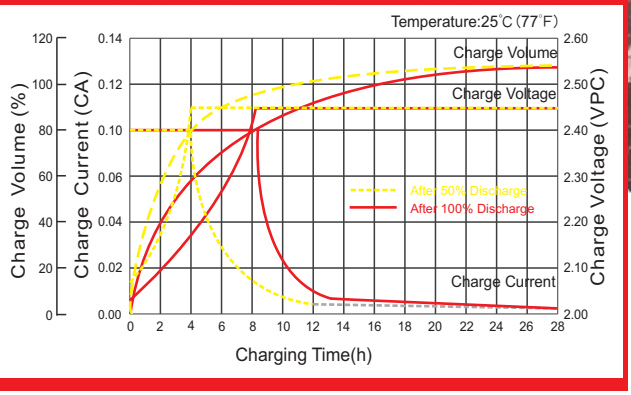
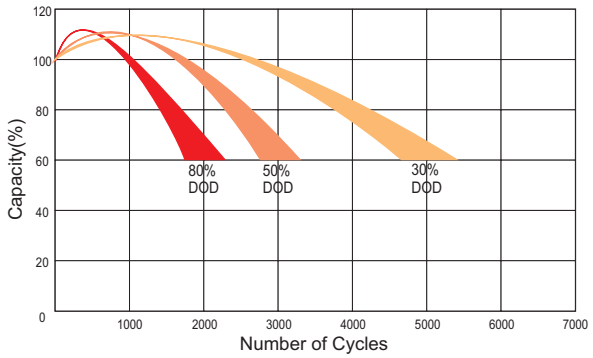
Discharge Characteristics Curve



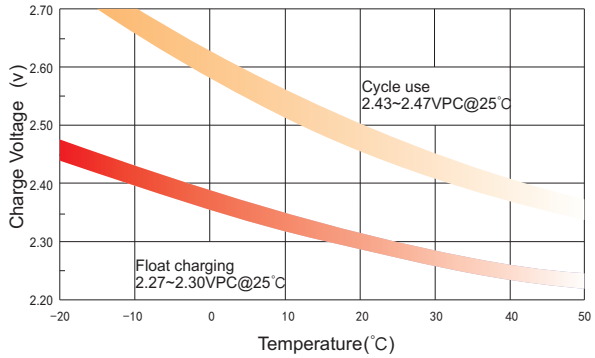
Charge Characteristic Curve for Cycle Use(IU)



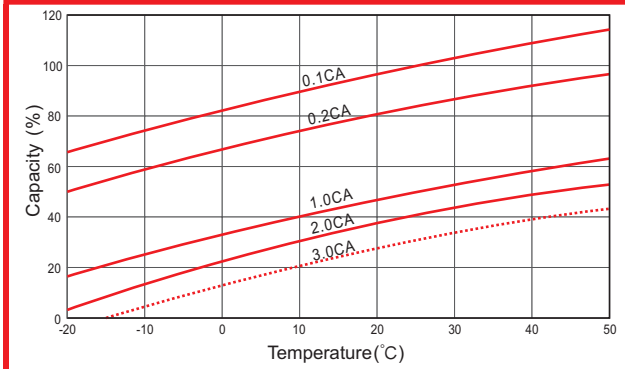
Cycle Life in Relation to Depth of Discharge



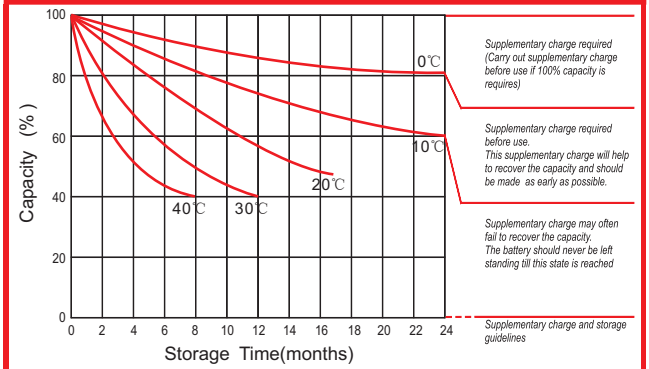
Relationship Between Charging Voltage and Temperature



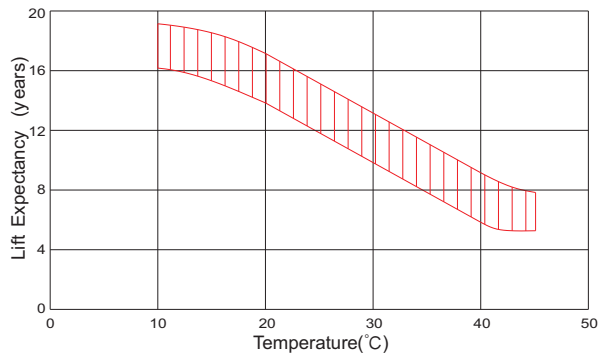
Temperature Effects on Capacity



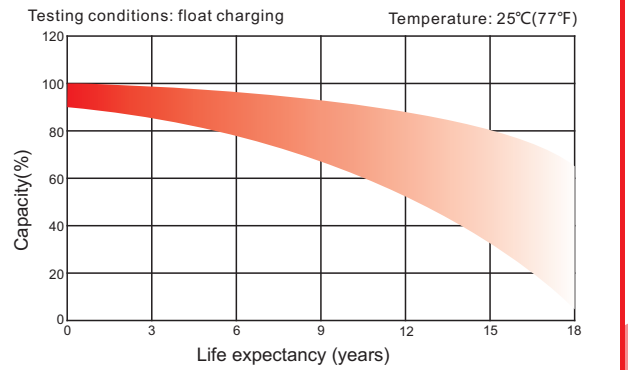
Storage Characteristics



Effect of Temperature on Long Term Life



Effect of Temperature on Long Term Life



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

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