

DC12-9(12V9Ah)



Specification



DC (Deep Cycle) series batteries provide superior high integrity and reliability. It is specially designed for frequent cyclic charge and discharging. 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 and cable TV etc.



ISO 9001



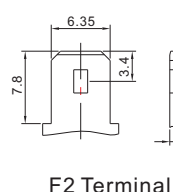
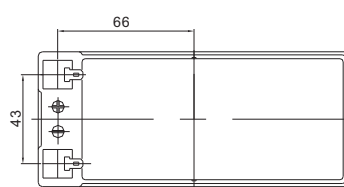
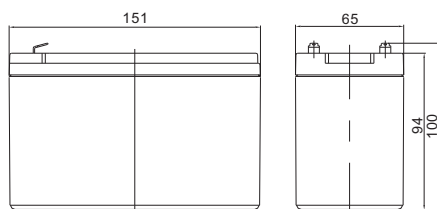
ISO 14001



OHSAS 18001

Cells Per Unit	6
Voltage Per Unit	12
Capacity	9Ah@20hr-rate to 1.75V per cell @25°C
Weight	Approx. 2.55 Kg (Tolerance $\pm 5.0\%$)
Internal Resistance	Approx. 21.0 m Ω
Terminal	F1/F2
Max. Discharge Current	90A (5 sec)
Design Life	6~8 years (floating charge)
Max. Charging Current	2.7 A
Reference Capacity	C3 6.96AH C5 7.85AH C10 8.41AH C20 9.00AH
Float Charging Voltage	13.7 V~13.9 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 $\pm 5^\circ$ 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



F2 Terminal

Length	151 ± 1.5 mm (5.94 inches)
Width	65 ± 1.5 mm (2.56 inches)
Height	94 ± 1.5 mm (3.70 inches)
Total Height	100 ± 1.5 mm (3.94 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	5MIN	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	34.15	24.13	17.45	10.020	5.499	3.376	2.538	2.049	1.698	1.093	0.887	0.469
1.65V	31.75	22.80	16.68	9.619	5.310	3.268	2.460	1.994	1.654	1.080	0.877	0.461
1.70V	28.65	20.99	15.62	9.195	5.137	3.161	2.393	1.939	1.611	1.064	0.863	0.456
1.75V	25.67	19.22	14.54	8.788	4.950	3.050	2.321	1.890	1.570	1.049	0.852	0.450
1.80V	22.54	17.40	13.42	8.400	4.760	2.941	2.250	1.835	1.530	1.031	0.841	0.446
1.85V	17.89	14.22	11.14	7.234	4.270	2.695	2.080	1.706	1.426	0.968	0.792	0.423

Constant Power Discharge Characteristics : WPC(25°C)

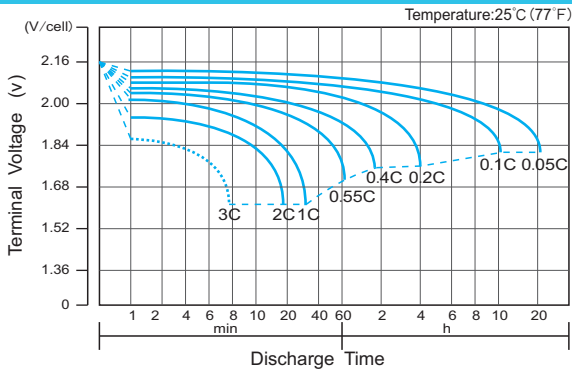
F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	56.61	41.02	30.50	18.20	10.33	6.399	4.848	3.934	3.273	2.134	1.744	0.923
1.65V	53.25	39.51	29.59	17.66	10.04	6.225	4.718	3.842	3.200	2.114	1.726	0.909
1.70V	49.14	37.04	28.13	17.04	9.770	6.053	4.610	3.751	3.127	2.087	1.702	0.899
1.75V	45.00	34.52	26.56	16.46	9.470	5.868	4.491	3.669	3.059	2.062	1.681	0.890
1.80V	40.35	31.79	24.87	15.89	9.161	5.687	4.369	3.577	2.991	2.031	1.662	0.882
1.85V	32.71	26.44	20.93	13.82	8.267	5.239	4.057	3.337	2.798	1.911	1.567	0.838

(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 C₂₀ should reach 95% after the first cycle and 100% after the third cycle.

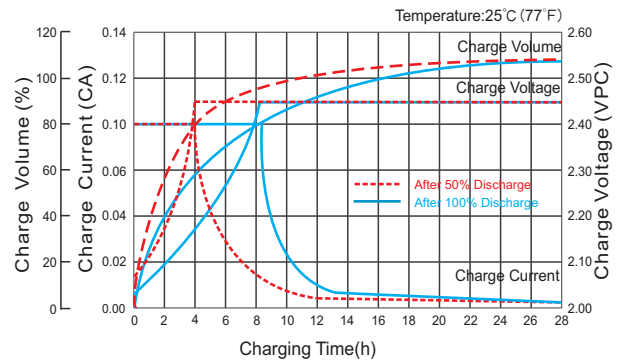
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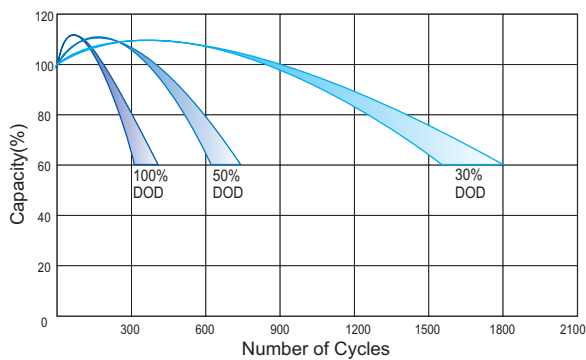
Discharge Characteristics Curve



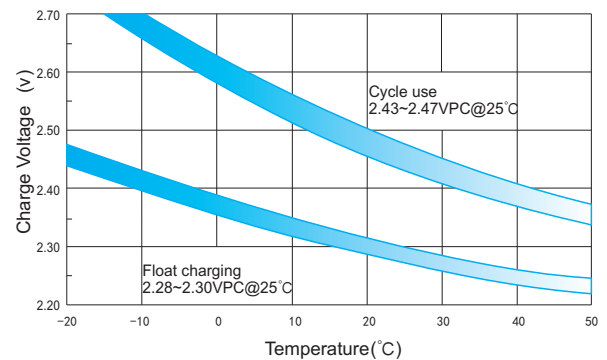
Charge Characteristic Curve for Cycle Use(IU)



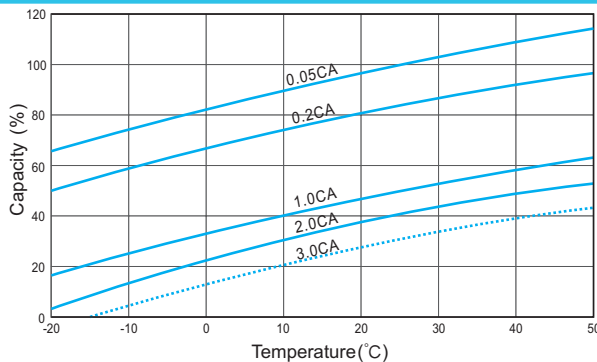
Cycle Life in Relation to Depth of Discharge



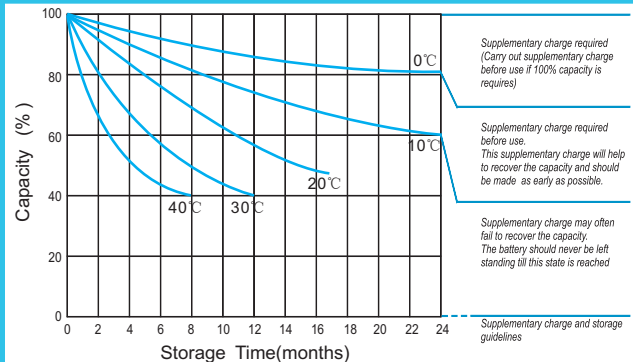
Relationship Between Charging Voltage and Temperature



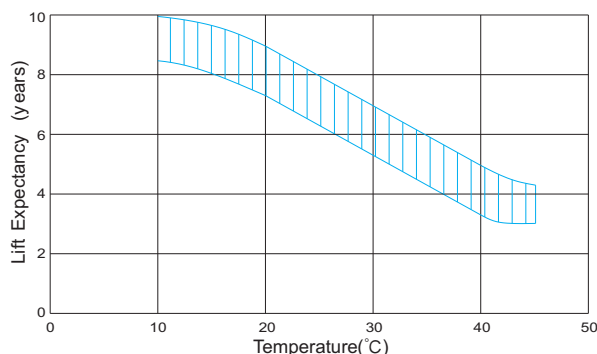
Temperature Effects on Capacity



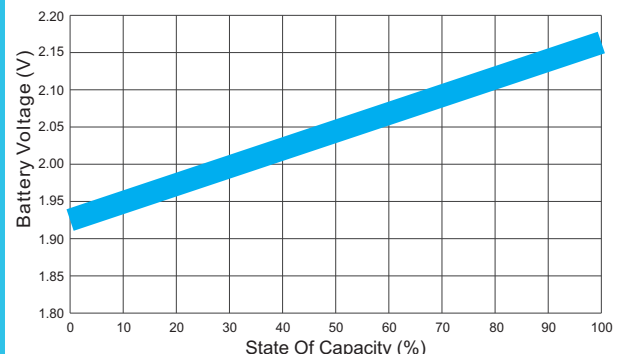
Storage Characteristics



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.

HENGYANG RITAR POWER CO.,LTD.
URL: www.ritarpower.com

Add: No.1 Huagong Road, Songmu Industrial Park, Shigu District, Hengyang, Hunan, China 421001
Tel: +86-734-8595528 Fax: +86-734-8595518 E-mail: sales@ritarpower.com

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