EXP12-1750 (12V110Ah)

RITAR®

Specification

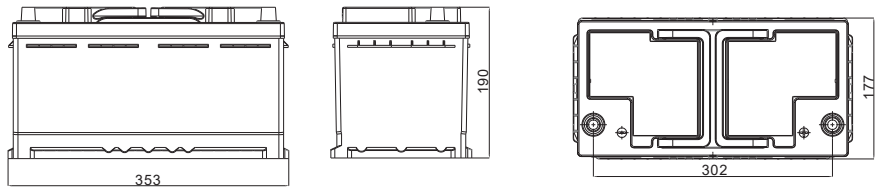
Cells Per Unit	6
Voltage Per Unit	12V 110Ah@100hr-rate to 1.75V per cell
Capacity	@25℃ Approx.
Weight	25.0 Kg (Tolerance±5%) ≤5.5 mΩ(Full
Internal Resistance	Charge Condition @25℃)
Terminal	Default L Type
Max. Discharge Current	1000A (5 sec)
Design Life	12 years
Max. Charging Current	30.0 A
Reference Capacity	C10 85AH C20 100AH C100 110AH
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.

The DC-RV(Deep Cycle) series is a battery specifically designed for RV applications where the battery offers superior high integrity and reliability. Its design features mainly consider the battery's frequent cycle charge-discharge characteristics. With a reasonable grid ratio configuration and special active substances, the cycle life provided by the battery is extended by 30% compared with the traditional sealed valve-controlled battery.

ISO 9001 ISO 14001 ISO 45001

MH 28539 BSTXD210316008501EC

Dimensions



Length	353±2mm (13.9 inches)
Width	177±2mm (6.97 inches)
Height	190±2mm (7.48 inches)
Total Height	190±2mm (7.48 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	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1. 60V	230.7	184.6	108.9	60.74	36.17	28.17	22.10	18.80	12.06	10.00	5.183
1. 65V	212.5	172.6	103.2	58.67	34.96	27.31	21.44	18.21	11.96	9.905	5.155
1. 70V	196.9	162.3	97.81	56.79	34.03	26.15	20.78	17.72	11.77	9.714	5.090
1. 75V	180.7	152.0	93.95	55.00	32.72	25.48	20.21	17.22	11.58	9.619	5.000
1. 80V	164.4	139.2	90.49	52.56	31.60	25.00	19.74	17.00	11.39	9.524	4.952
1. 85V	128.6	115.2	76.73	46.91	28.90	23.27	18.51	15.65	10.73	8.952	4.905

Constant Power Discharge Characteristics : W/Cell (25℃)

F.V/Time	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1. 60V	392.8	322.0	197.9	114.0	68.39	53.50	42.59	35.58	23.50	19.61	10.35
1. 65V	378.2	313.0	193.2	112.1	66.54	52.17	41.56	34.62	23.31	19.42	10.25
1. 70V	353.0	296.3	183.9	108.8	64.88	50.17	40.23	33.76	23.03	19.05	10.16
1. 75V	328.5	279.7	177.5	105.8	62.57	48.93	39.29	32.99	22.65	18.86	9.977
1. 80V	302.6	258.5	171.8	101.4	61.15	48.65	38.53	32.54	22.28	18.67	9.885
1. 85V	240.1	217.2	147.3	91.10	56.31	45.38	36.27	30.10	21.05	17.63	9.792

(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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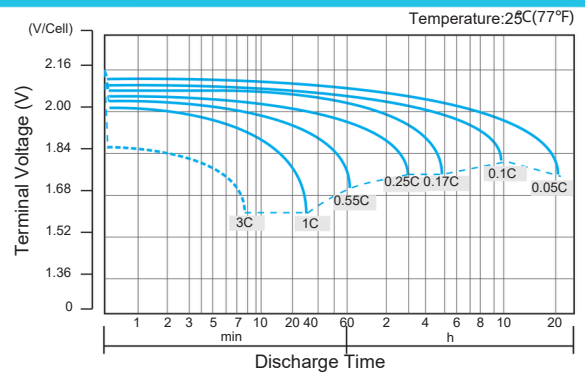
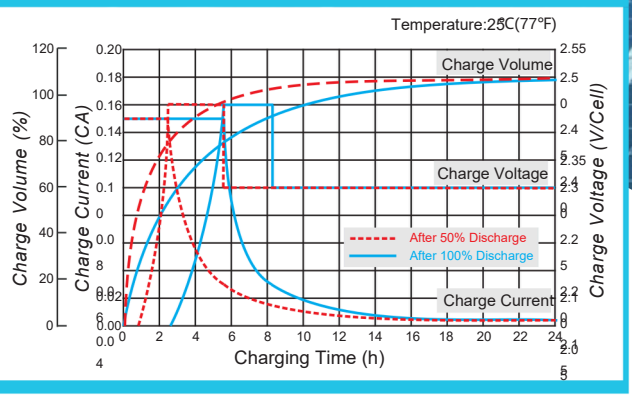
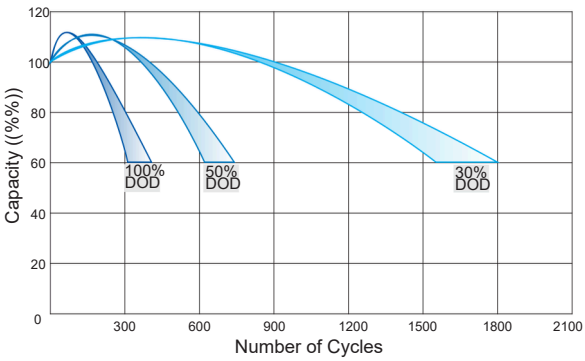
Discharge Characteristics Curve



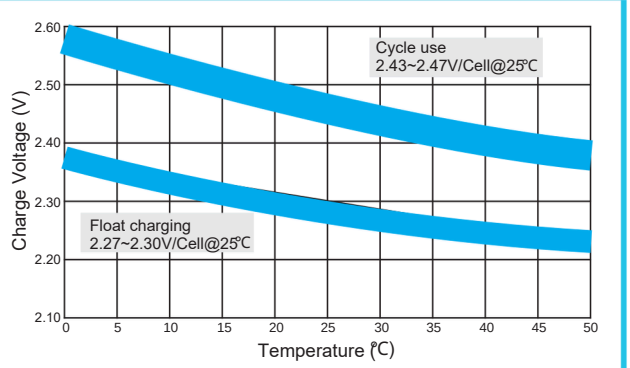
Charge Characteristic Curve for Cycle Use(IUU)



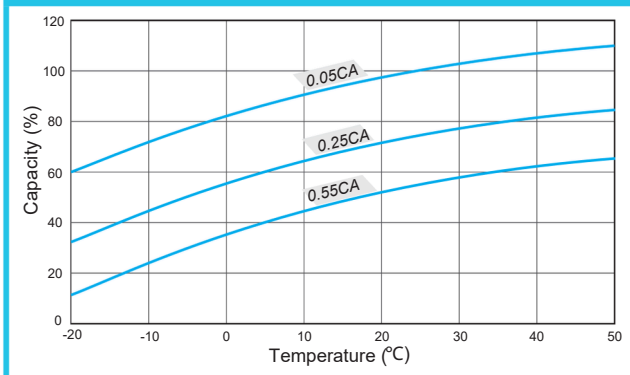
Cycle Life in Relation to Depth of Discharge



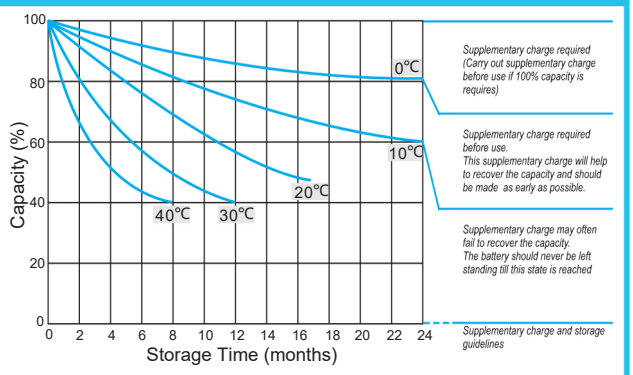
Relationship Between Charging Voltage and Temperature



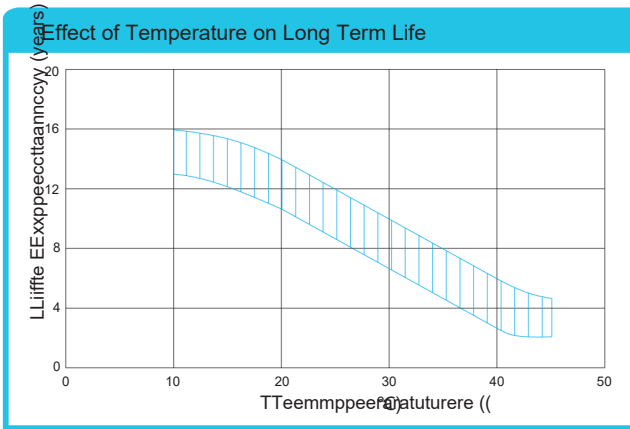
Temperature Effects on Capacity



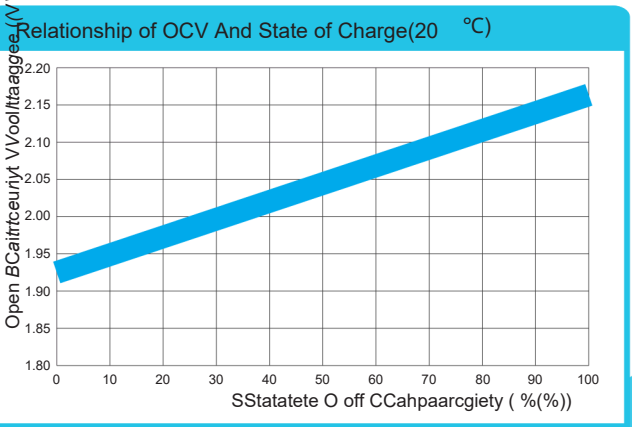
Storage Characteristics



Effect of Temperature on Long Term Life



Relationship of OCV And State of Charge(20 ℃)



(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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