



EV12-150 (12V150Ah)



Specification

Cells Per Unit	6
Voltage Per Unit	12
Capacity	150Ah@10hr-rate to 1.80V per cell @25°C
Weight	Approx. 47.0 Kg (Tolerance ± 1.5%)
Internal Resistance	Approx. 4 mΩ
Terminal	F12(M8)/F5(M8)
Max. Discharge Current	1500A (5 sec)
Cold Cranking Ampere(CCA)	715A
Maximum Charging Current	45.0A
Reference Capacity	C3 114.6AH
	C5 127.5AH
	C10 150.0AH
	C20 160.6AH
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.



EV (Electric Vehicle) series is specially designed for frequent discharge deep cycle application. By using the specially designed active material, strong grids and thick plate construction, the EV series battery offers reliable performance in high load situations and could provide competitive cycle performance. Suitable for Electric Vehicle and Golf cart; Industrial equipment, Floor Machines, Forklifts, Aerial lifts, and Robotics; Marine, RV, and no-idle solutions; Mobility and Medical Equipment; and most outdoor application.



Dimensions

Length	483±1mm (19.0 inches)
Width	170±1mm (6.69 inches)
Height	241±1mm (9.49 inches)
Total Height	241±1mm (9.49 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	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	371.0	276.4	160.6	93.7	57.2	40.8	32.2	26.9	19.0	16.1	8.35
1.65V	358.7	268.1	157.2	92.0	56.2	40.2	31.8	26.6	18.8	15.9	8.27
1.70V	342.5	257.2	152.7	89.6	54.9	39.4	31.2	26.1	18.5	15.7	8.17
1.75V	321.0	242.6	146.7	86.4	53.2	38.2	30.4	25.5	18.1	15.4	8.03
1.80V	292.1	223.0	138.4	82.0	50.7	36.6	29.3	24.7	17.6	15.0	7.83
1.85V	252.6	195.9	126.6	75.7	47.2	34.4	27.6	23.4	16.8	14.4	7.55

Constant Power Discharge Characteristics : WPC(25°C)

F.V/Time	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	631	483	292	175	108	78.0	61.9	51.9	37.1	31.6	16.4
1.65V	626	479	290	174	107	77.2	61.4	51.5	36.8	31.4	16.3
1.70V	604	463	283	170	105	75.8	60.3	50.7	36.3	31.0	16.1
1.75V	576	443	275	165	102	73.9	59.0	49.7	35.6	30.4	15.9
1.80V	534	413	262	157	98.1	71.2	57.0	48.2	34.6	29.6	15.5
1.85V	470	368	242	146	91.8	67.0	54.0	45.9	33.1	28.5	15.0

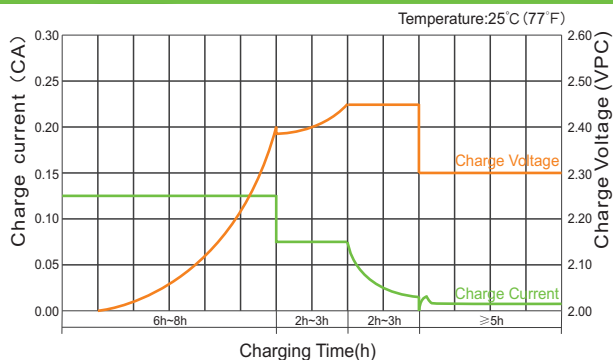
(Note) The above characteristics data are average values obtained within three charge/discharge cycle not the minimum values.



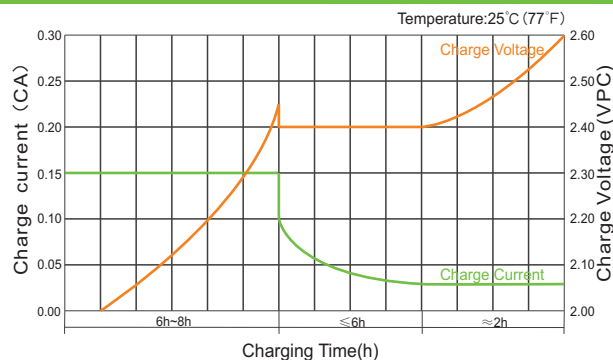
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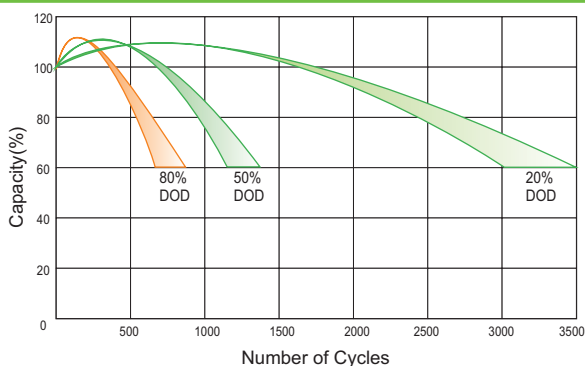
Charge Characteristic Curve for Cycle Use(IUUU)



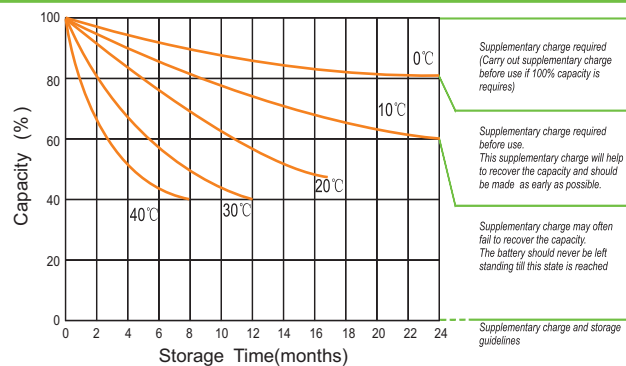
Charge Characteristic Curve For Cycle Use(III)



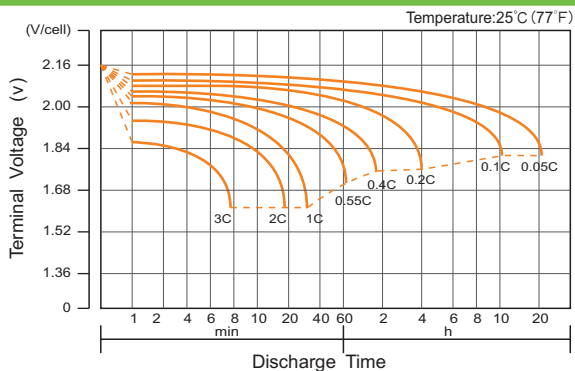
Cycle Life in Relation to Depth of Discharge



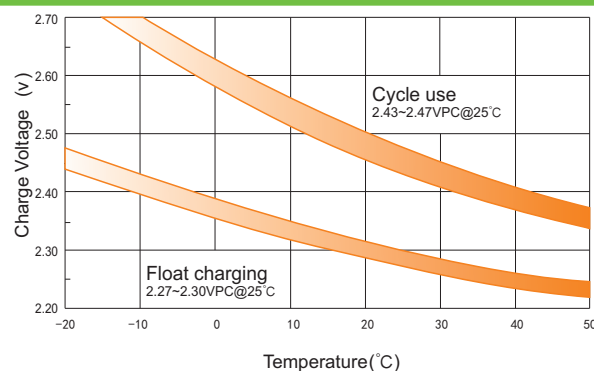
Storage Characteristics



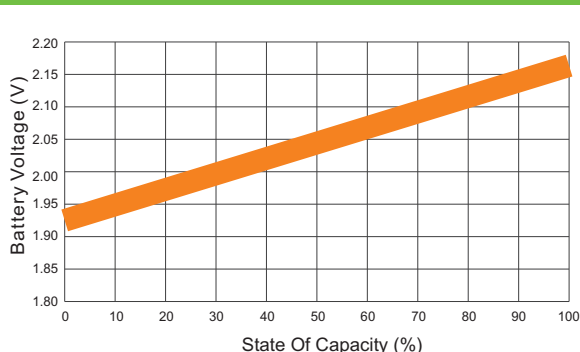
Discharge Characteristics Curve



Relationship Between Charging Voltage and Temperature



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



Temperature Effects on Capacity

