



EV12-150 (12V150Ah)



Specification

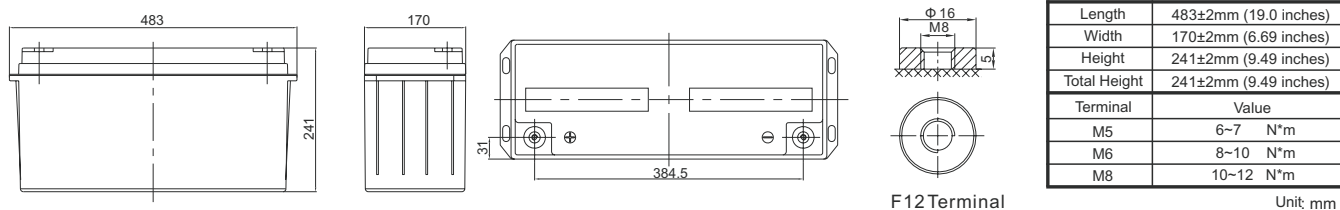
Cells Per Unit	6
Voltage Per Unit	12
Capacity	150Ah@10hr-rate to 1.80V per cell @25°C
Weight	Approx. 44.5 Kg (Tolerance ±3.0%)
Internal Resistance	Approx. 4.4 mΩ
Terminal	F5(M8)/F12(M8)
Max. Discharge Current	1500A (5 sec)
Cold Cranking Ampere(CCA)	715A
Maxi. Charging Current	45.0A
Reference Capacity	C3 116.1AH
	C5 131.0AH
	C10 150.0AH
	C20 159.0AH
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.



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. It is suitable for Electric Vehicle and Golf cart, Floor Machines, Forklifts, Aerial lifts, Robotics, Marine, RV, Mobility and Medical Equipment, and most outdoor application.



Dimensions



Constant Current Discharge Characteristics : A(25°C)

F.V/Time	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	342.7	272.1	165.9	92.6	54.7	42.3	33.3	28.3	19.0	15.8	8.28
1.65V	323.8	260.2	159.2	89.4	52.9	41.0	32.4	27.6	18.8	15.6	8.15
1.70V	298.1	243.7	152.2	86.5	51.2	39.9	31.5	26.9	18.5	15.4	8.05
1.75V	272.9	226.8	145.5	83.3	49.4	38.7	30.7	26.2	18.3	15.2	7.95
1.80V	247.0	209.4	139.0	80.1	47.6	37.5	29.8	25.5	18.0	15.0	7.87
1.85V	201.9	173.7	119.8	71.9	43.6	34.7	27.7	23.8	16.9	14.1	7.47

Constant Power Discharge Characteristics : WPC(25°C)

F.V/Time	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	582.5	475.7	301.3	173.9	103.6	80.9	63.9	54.6	37.2	31.1	16.3
1.65V	561.0	461.6	292.3	168.9	100.8	78.7	62.4	53.4	36.8	30.8	16.1
1.70V	526.0	438.8	282.2	164.5	98.0	76.9	60.9	52.2	36.4	30.3	15.9
1.75V	490.1	414.2	272.5	159.4	95.0	74.9	59.6	51.0	35.9	30.0	15.7
1.80V	451.4	387.9	263.1	154.2	92.1	72.9	58.1	49.9	35.4	29.6	15.6
1.85V	375.5	326.5	228.8	139.2	84.8	67.7	54.2	46.7	33.3	27.9	14.8

(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 C₁₀ should reach 95% after the first cycle and 100% after the third cycle.



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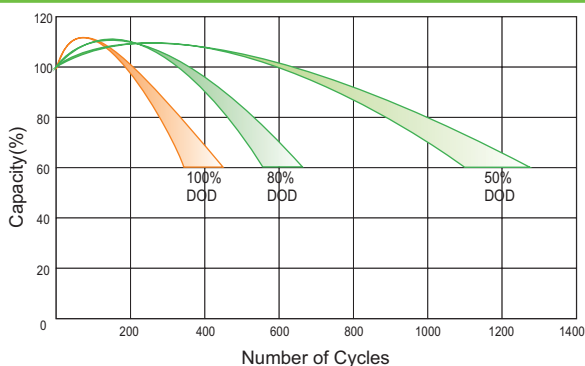
Charge Characteristic Curve for Cycle Use(IUUU)



Charge Characteristic Curve For Cycle Use(III)



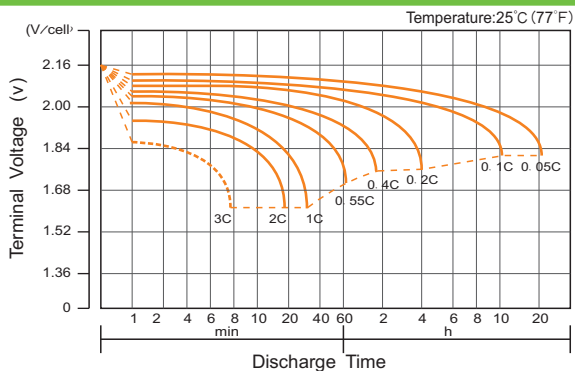
Cycle Life in Relation to Depth of Discharge



Storage Characteristics



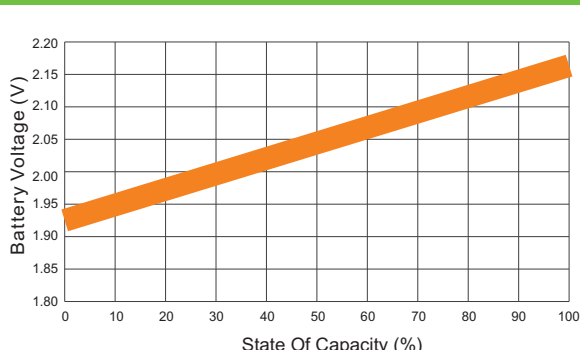
Discharge Characteristics Curve



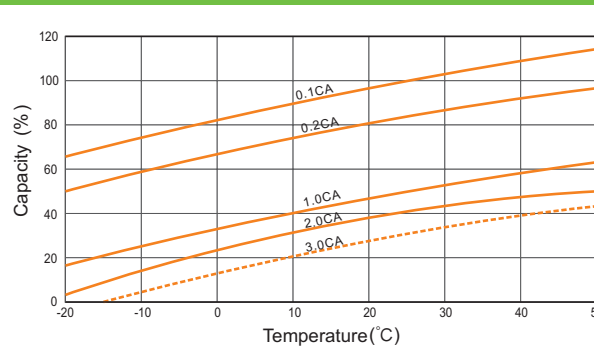
Relationship Between Charging Voltage and Temperature



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



Temperature Effects on Capacity



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