



EV12-150S(12V150Ah)



Specification

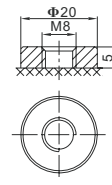
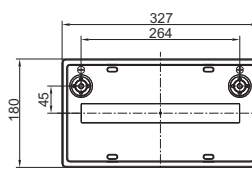
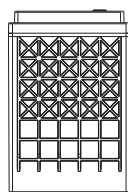
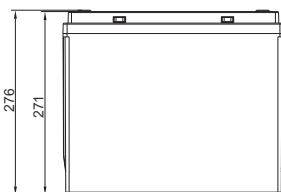
Cells Per Unit	6
Voltage Per Unit	12V
Capacity	150Ah@20hour-rate to 1.75V per cell @25°C
Weight	Approx. 41.0 Kg (Tolerance ±5%)
Internal Resistance	≤4.0 mΩ (Full Charge Condition @25°C)
Terminal	Default F10(M8)
Max. Discharge Current	1500A (5 sec)
Cold Cranking Ampere(CCA)	715A
Maxi. Charging Current	45.0A
Reference Capacity	C ₃ 112.5Ah
	C ₅ 127.5Ah
	C ₁₀ 143.0Ah
	C ₂₀ 150.0Ah
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



F 10 Terminal

Length	327 ± 2mm (12.9 inches)
Width	180 ± 2mm (7.09 inches)
Height	271 ± 2mm (10.7 inches)
Total Height	276 ± 2mm (10.9 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	332.4	266.7	164.2	91.6	54.4	42.3	33.2	28.3	18.6	15.0	7.81
1.65V	314.1	255.0	157.7	88.5	52.6	41.0	32.3	27.6	18.4	14.8	7.69
1.70V	289.2	238.8	150.7	85.6	50.9	39.9	31.5	26.8	18.1	14.6	7.59
1.75V	264.7	222.2	144.0	82.5	49.1	38.7	30.7	26.2	17.9	14.4	7.50
1.80V	239.6	205.2	137.7	79.3	47.4	37.5	29.8	25.5	17.6	14.3	7.43
1.85V	195.8	170.3	118.6	71.2	43.4	34.7	27.7	23.8	16.5	13.4	7.05

Constant Power Discharge Characteristics : W/Cell(25°C)

F.V/Time	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	565.0	466.2	298.3	172.2	103.0	80.8	63.8	54.5	36.3	29.6	15.4
1.65V	544.2	452.3	289.4	167.3	100.2	78.6	62.3	53.3	36.0	29.2	15.2
1.70V	510.2	430.0	279.3	162.8	97.4	76.8	60.9	52.1	35.5	28.8	15.0
1.75V	475.4	406.0	269.7	157.8	94.5	74.9	59.5	51.0	35.1	28.5	14.8
1.80V	437.9	380.1	260.4	152.7	91.6	72.8	58.0	49.8	34.6	28.2	14.7
1.85V	364.2	319.9	226.5	137.8	84.3	67.6	54.1	46.6	32.5	26.5	14.0

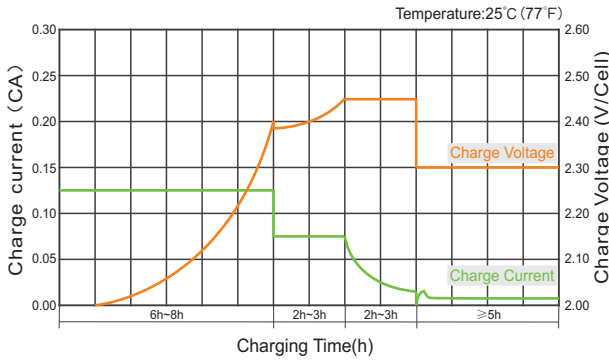
(Note) The above characteristics data are average values obtained within three charge/discharge cycle not the minimum values. The battery must be fully charged before the capacity test. The C₂₀ should reach 95% after the first cycle and 100% after the third cycle.



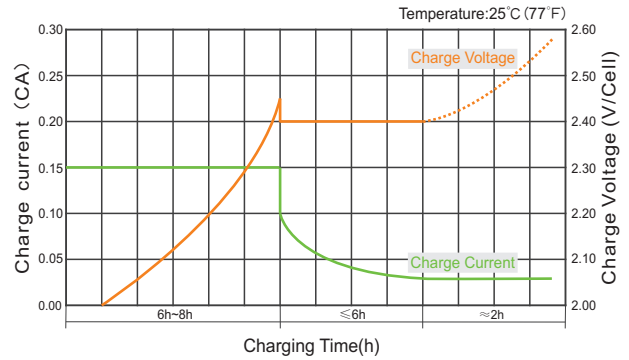
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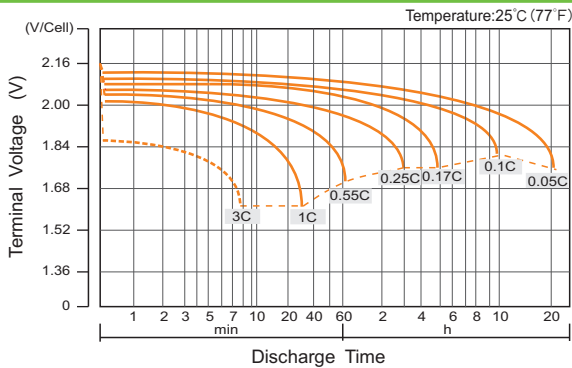
Charge Characteristic Curve for Cycle Use(IUUU)



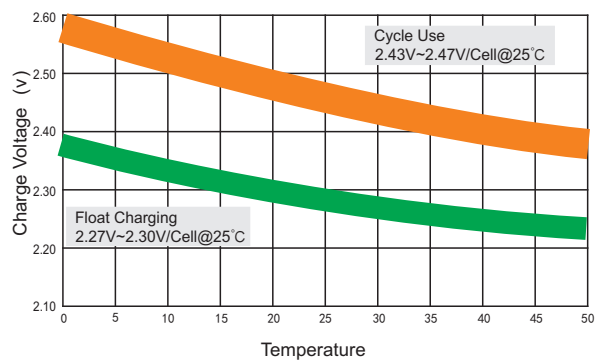
Charge Characteristic Curve For Cycle Use(III)



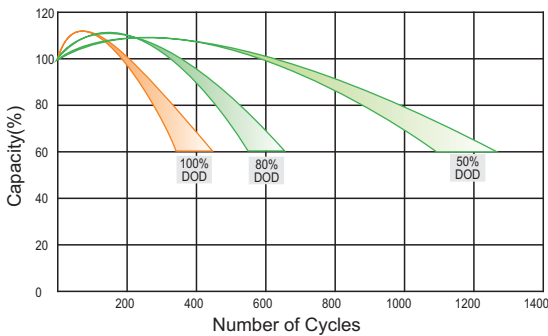
Discharge Characteristics Curve



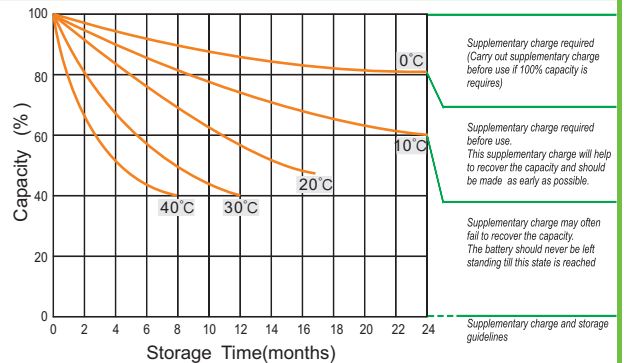
Relationship Between Charging Voltage and Temperature



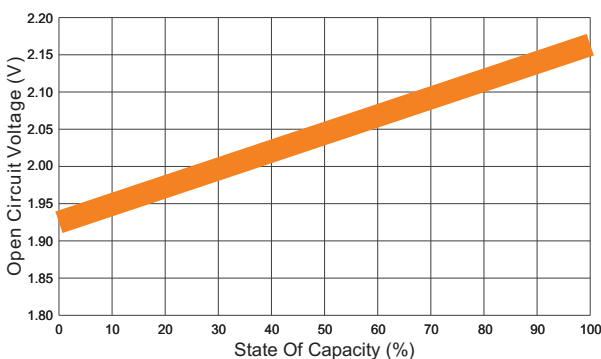
Cycle Life in Relation to Depth of Discharge



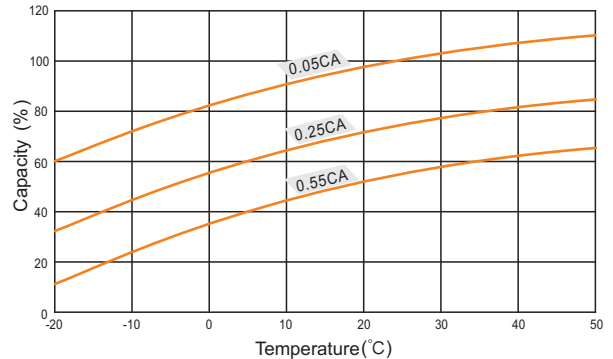
Storage Characteristics



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.