



# EV12-60S(12V60Ah)



## Specification

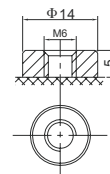
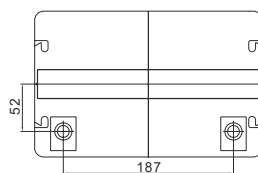
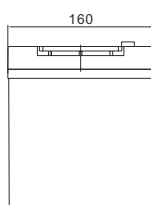
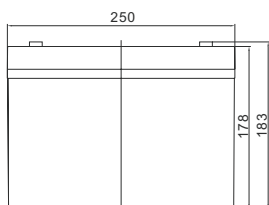
Cells Per Unit	6
Voltage Per Unit	12
Capacity	60Ah@10hr-rate to 1.80V per cell @25°C
Weight	Approx. 19.5 Kg (Tolerance ±3.0%)
Internal Resistance	Approx. 6.5 mΩ
Terminal	F15(M6)
Max. Discharge Current	600A (5 sec)
Cold Cranking Ampere(CCA)	390A
Maxi. Charging Current	18.0A
Reference Capacity	C3 46.5AH
	C5 52.5AH
	C10 60.0AH
	C20 63.6AH
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. 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



F15 TERMINAL

Length	250±2mm (9.84 inches)
Width	160±2mm (6.30 inches)
Height	178±2mm (7.01 inches)
Total Height	183±2mm (7.20 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	195.8	149.3	113.4	66.3	37.0	21.9	16.9	13.3	11.3	7.61	6.33	3.31
1.65V	188.7	141.0	108.4	63.7	35.8	21.2	16.4	13.0	11.0	7.53	6.25	3.26
1.70V	179.5	129.8	101.6	60.9	34.6	20.5	16.0	12.6	10.7	7.41	6.16	3.22
1.75V	167.7	118.8	94.5	58.2	33.3	19.8	15.5	12.3	10.5	7.31	6.08	3.18
1.80V	152.8	107.6	87.3	55.6	32.1	19.0	15.0	11.9	10.21	7.19	6.00	3.15
1.85V	134.4	87.9	72.4	47.9	28.7	17.5	13.9	11.1	9.52	6.75	5.65	2.99

### Constant Power Discharge Characteristics : WPC(25°C)

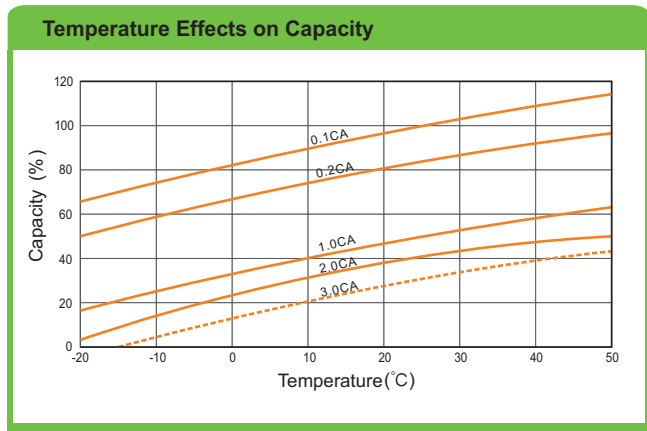
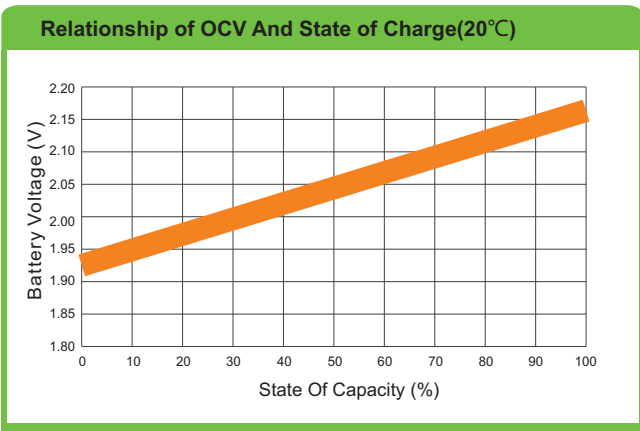
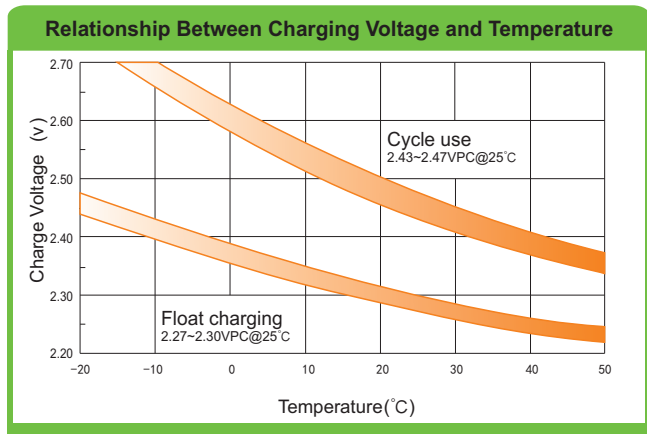
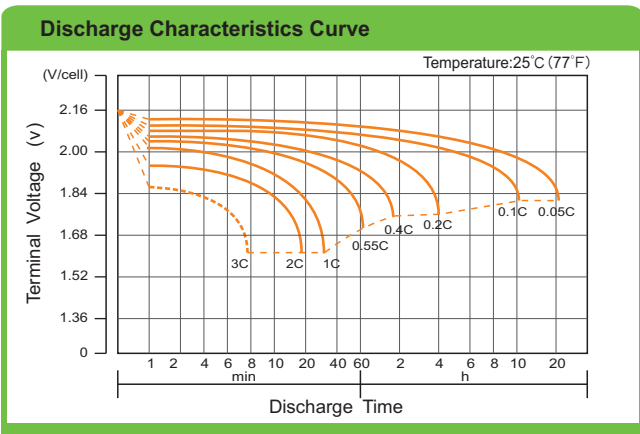
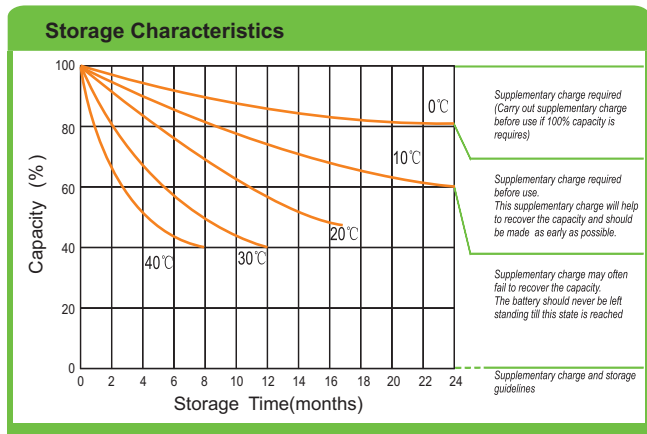
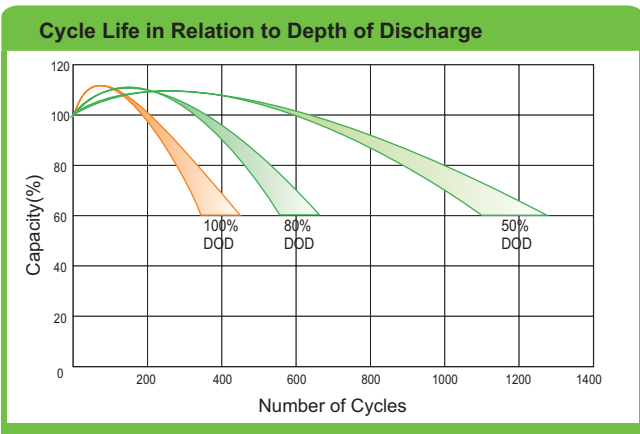
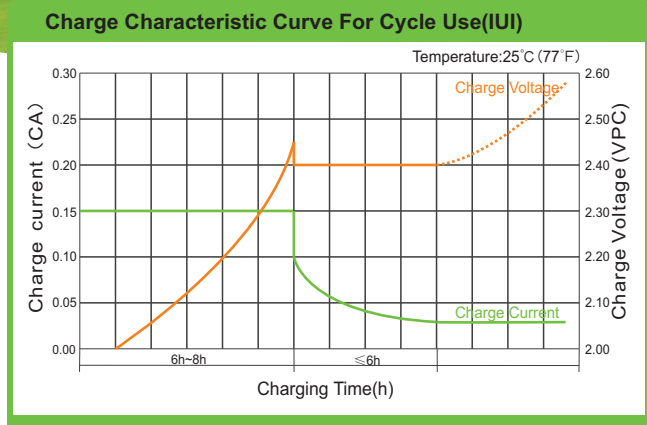
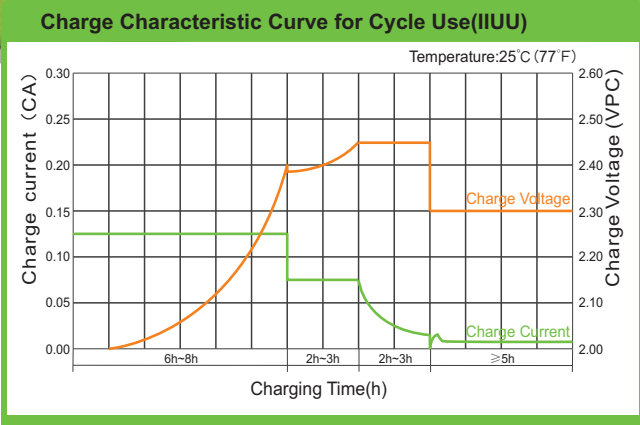
F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	337.0	253.7	198.3	120.5	69.6	41.4	32.4	25.6	21.8	14.9	12.4	6.52
1.65V	333.4	244.4	192.4	116.9	67.6	40.3	31.5	25.0	21.4	14.7	12.3	6.43
1.70V	320.7	229.1	182.9	112.9	65.8	39.2	30.8	24.4	20.9	14.5	12.1	6.36
1.75V	305.0	213.5	172.7	109.0	63.8	38.0	30.0	23.8	20.4	14.4	12.0	6.29
1.80V	282.7	196.6	161.7	105.2	61.7	36.8	29.2	23.2	20.0	14.2	11.9	6.23
1.85V	253.2	163.5	136.1	91.5	55.7	33.9	27.1	21.7	18.7	13.3	11.2	5.92

(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 C<sub>10</sub> should reach 95% after the first cycle and 100% after the third cycle.



# EV12-60S (12V60Ah)



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