



# EV12-22(12V22Ah)



## Specification

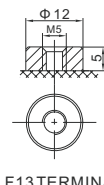
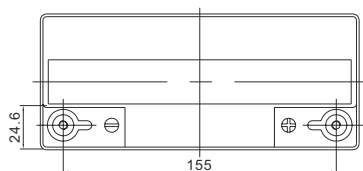
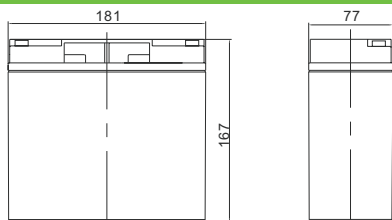


EV (Electric Vehicle) series is specially designed for frequent discharge deep cycle application. By using the specially designed active material, strong grids and thick plate construction, the EV series battery offers reliable performance in high load situations and could provide competitive cycle performance. 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.



<b>Cells Per Unit</b>	6
<b>Voltage Per Unit</b>	12
<b>Capacity</b>	22Ah@20hr-rate to 1.75V per cell @25°C
<b>Weight</b>	Approx. 6.2 Kg (Tolerance ±3%)
<b>Internal Resistance</b>	Approx. 14.0 mΩ
<b>Terminal</b>	F13(M5)/F3(M5)/F18(M5)
<b>Max. Discharge Current</b>	264A (5 sec)
<b>Cold Cranking Ampere(CCA)</b>	190A
<b>Maximum Charging Current</b>	6.6A
<b>Reference Capacity</b>	C3 17.2AH C5 18.9AH C10 20.8AH C20 22.0AH
<b>Float Charging Voltage</b>	13.6 V~13.8 V @ 25°C Temperature Compensation: -3mV/°C/Cell
<b>Cycle Use Voltage</b>	14.6 V~14.8 V @ 25°C Temperature Compensation: -4mV/°C/Cell
<b>Operating Temperature Range</b>	Discharge: -20°C~60°C Charge: 0°C~50°C Storage: -20°C~60°C
<b>Normal Operating Temperature Range</b>	25°C ±5°C
<b>Self Discharge</b>	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.
<b>Container Material</b>	A.B.S. UL94-HB, UL94-V0 Optional.

## Dimensions



Length	181±2mm (7.13 inches)
Width	77±2mm (3.03 inches)
Height	167±2mm (6.57 inches)
Total Height	167±2mm (6.57 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	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	25.82	15.16	8.65	6.11	4.78	3.99	2.69	2.23	1.144
1.65V	25.28	14.87	8.50	6.01	4.71	3.94	2.66	2.21	1.134
1.70V	24.56	14.49	8.30	5.89	4.62	3.87	2.62	2.18	1.120
1.75V	23.59	13.97	8.04	5.72	4.50	3.78	2.57	2.13	1.101
1.80V	22.25	13.26	7.67	5.48	4.33	3.65	2.49	2.08	1.074
1.85V	20.36	12.24	7.14	5.14	4.09	3.47	2.38	1.99	1.035

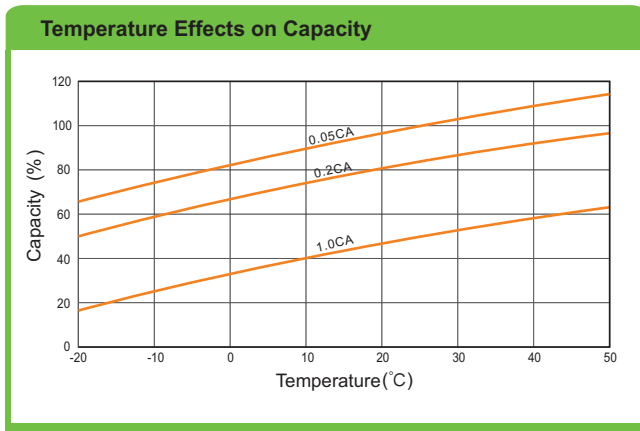
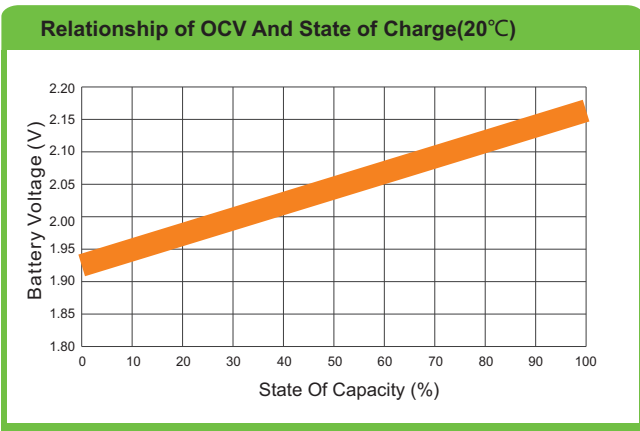
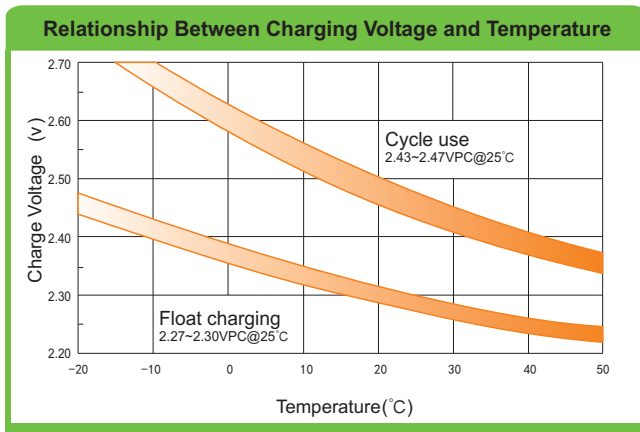
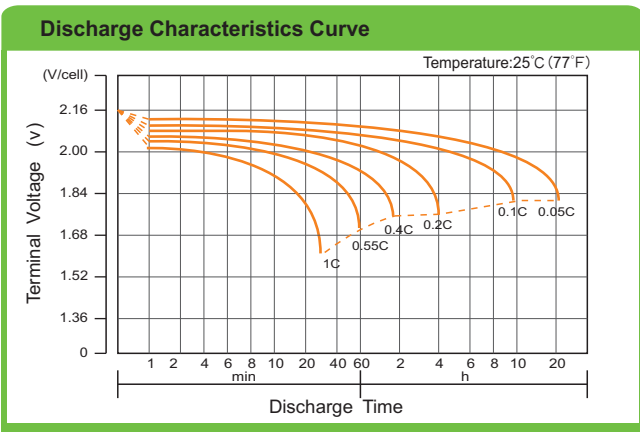
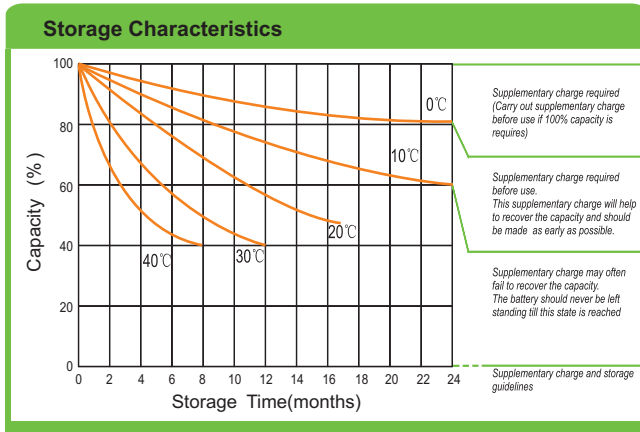
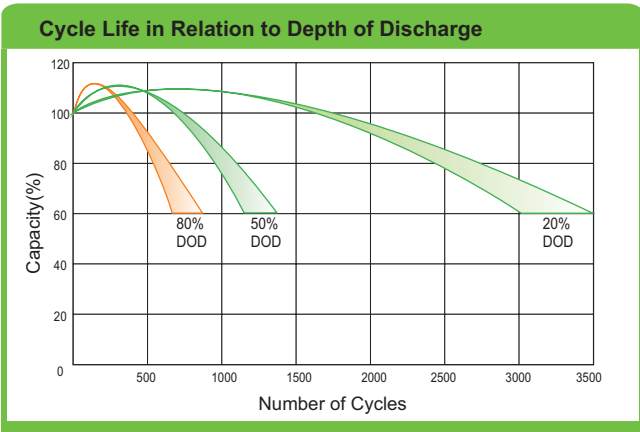
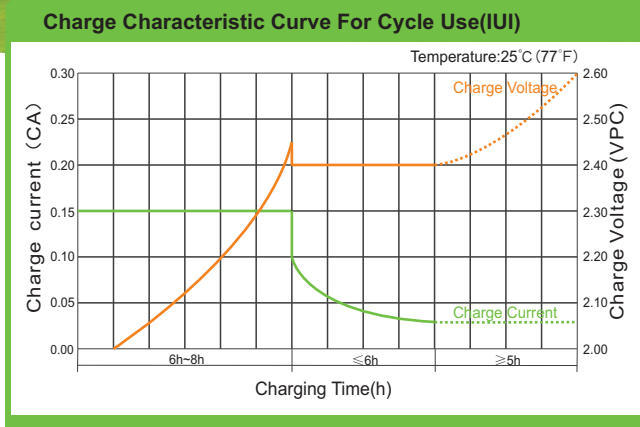
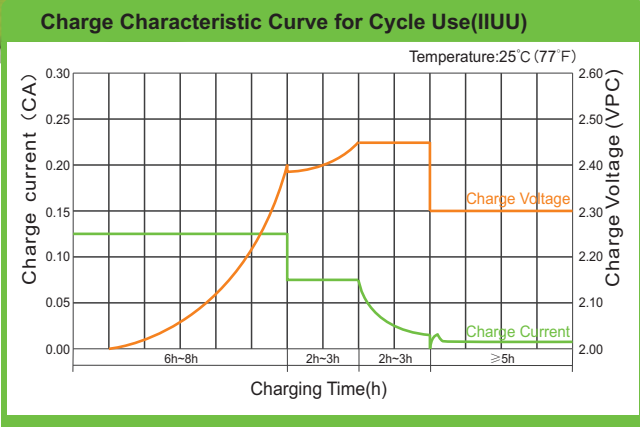
### Constant Power Discharge Characteristics : WPC(25°C)

F.V/Time	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	46.90	28.34	16.39	11.66	9.17	7.68	5.26	4.38	2.25
1.65V	46.60	28.10	16.23	11.56	9.09	7.63	5.22	4.34	2.24
1.70V	45.53	27.48	15.90	11.35	8.94	7.51	5.14	4.29	2.21
1.75V	44.18	26.63	15.46	11.06	8.74	7.36	5.05	4.21	2.18
1.80V	42.09	25.39	14.83	10.65	8.45	7.14	4.91	4.10	2.13
1.85V	38.89	23.61	13.88	10.03	8.00	6.81	4.69	3.94	2.05

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



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