



EV12-55(12V55Ah)



Specifications

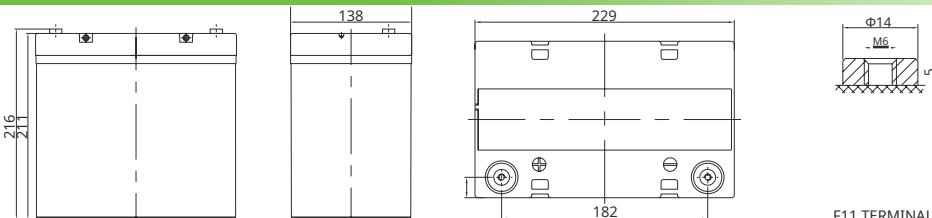
Battery cells	6
Battery voltage	12
Nominal capacity	55Ah at 10h discharge to 1.80V at 25°C
Weight	Approx. 16.5 Kg (Tolerance±3.0%)
Internal resistance	Approx. 7.0 mΩ
Terminal	F15(M6)/F11(M6)
Max. discharge current	550A (5 sec)
Short circuit current	1100A
Project life	Long life 12 years
Reference capacity	C3 42.6AH C5 48.1AH C10 55.0AH C20 58.2AH
Charge voltage	13.7V~13.9V at 25°C Temperature compensation: -3mV/°C/elec.
Tension. in cycles	14.6V~14.8V at 25°C Temperature Compensation: -4mV/°C/ elec.
Permissible operating temperature	Rank: -20°C~60°C Charge: 0°C~50°C Storage: -20°C~60°C
Normal operating temperature	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 they must be loaded. The self-discharge is within 3% per month at 25°C
Box material	ABS UL94-HB, UL94-V0 Optional.



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



Dimensions



Length	229±2mm (9.02 inches)
Width	138±2mm (5.43 inches)
Height	211±2mm (8.31 inches)
Top height	216±2mm (8.50 inches)
Terminals	Value
M5	6~7 N*m
M6	8~10 N*m
M8	10~12 N*m

F11 TERMINAL

Unit: mm

Characteristics at constant discharge currentA (25°C)

FV/Time	5MIN	10 MIN	15 MIN	30 MIN	1 HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	185.0	139.6	105.0	61.43	35.04	20.04	15.53	12.20	10.39	6.98	5.80	3.04
1.65V	178.3	131.9	100.4	58.98	33.78	19.40	15.05	11.87	10.12	6.90	5.73	2.99
1.70V	169.6	121.4	94.1	56.37	32.71	18.76	14.64	11.55	9.85	6.80	5.65	2.95
1.75V	158.5	111.2	87.52	53.88	31.55	18.11	14.20	11.26	9.61	6.70	5.57	2.91
1.80V	144.4	100.6	80.81	51.50	29.38	17.46	13.76	10.93	9.36	6.59	5.50	2.89
1.85V	127.0	82.24	67.06	44.36	26.35	16.00	12.72	10.16	8.73	6.18	5.18	2.74

Constant power discharge characteristic:W per element (25°C)

FV/Time	5MIN	10 MIN	15 MIN	30 MIN	1 HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	318.4	237.3	183.6	111.6	63.8	38.0	29.7	23.4	20.0	13.6	11.4	5.98
1.65V	315.1	228.6	178.1	108.2	61.9	37.0	28.9	22.9	19.6	13.5	11.3	5.89
1.70V	303.1	214.3	169.3	104.5	60.3	35.9	28.2	22.3	19.1	13.3	11.1	5.83
1.75V	288.2	199.7	159.9	100.9	58.5	34.8	27.5	21.9	18.7	13.2	11.0	5.76
1.80V	267.2	183.9	149.7	97.4	56.5	33.8	26.7	21.3	18.3	13.0	10.9	5.71
1.85V	239.3	153.0	126.0	84.7	51.0	31.1	24.8	19.9	17.1	12.2	10.2	5.43

(Note) The above characteristics data are average values obtained within three charge/discharge cycles 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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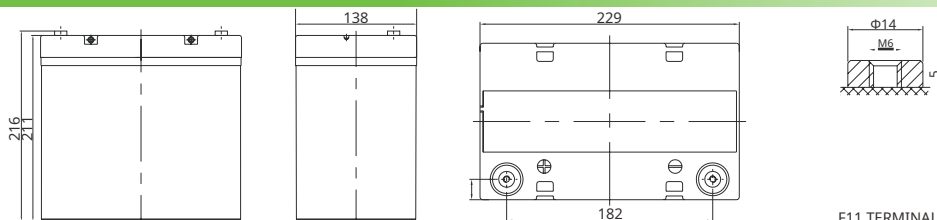


EV (Electric Vehicle) series is specially designed for frequent discharge deep cycle application. By using the specially designed active material, strong grids and thick plate construction, the EV series battery offers reliable performance in high load situations and could provide competitive cycle performance.

Cells Per Unit	6
Voltage Per Unit	12
Capacity	55Ah@10hr-rate to 1.80V per cell @25°C
Weight	Approx. 16.5 Kg (Tolerance±3.0%)
Internal Resistance	Approx. 7.0 mΩ
Terminal	F15(M6)/F11(M6)
Max. Discharge Current	550A (5 sec)
Cold Cranking Ampere(CCA)	360A
Design Life	Long life 12 years
Reference Capacity	C3 42.6AH C5 48.1AH C10 55.0AH C20 58.2AH
Float Charging Voltage	13.6V~13.8V @ 25°C Temperature Compensation: -3mV/°C/Cell
Cycle Use Voltage	14.6V~14.8V @ 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 charge batteries before using.
Container Material	ABS UL94-HB, UL94-V0 Optional.



Dimensions



Length	229±2mm (9.02 inches)
Width	138±2mm (5.43 inches)
Height	211±2mm (8.31 inches)
Total Height	216±2mm (8.50 inches)
Terminal	Value
M5	6~7 N*m
M6	8~10 N*m
M8	10~12 N*m

F11 TERMINAL

Unit: mm

Constant Current Discharge Characteristics : A(25°C)

FV/Time	5MIN	10 MIN	15 MIN	30 MIN	1 HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	185.0	139.6	105.0	61.43	35.04	20.04	15.53	12.20	10.39	6.98	5.80	3.04
1.65V	178.3	131.9	100.4	58.98	33.78	19.40	15.05	11.87	10.12	6.90	5.73	2.99
1.70V	169.6	121.4	94.1	56.37	32.71	18.76	14.64	11.55	9.85	6.80	5.65	2.95
1.75V	158.5	111.2	87.52	53.88	31.55	18.11	14.20	11.26	9.61	6.70	5.57	2.91
1.80V	144.4	100.6	80.81	51.50	29.38	17.46	13.76	10.93	9.36	6.59	5.50	2.89
1.85V	127.0	82.24	67.06	44.36	26.35	16.00	12.72	10.16	8.73	6.18	5.18	2.74

Constant Power Discharge Characteristics : WPC(25°C)

FV/Time	5MIN	10 MIN	15 MIN	30 MIN	1 HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	318.4	237.3	183.6	111.6	63.8	38.0	29.7	23.4	20.0	13.6	11.4	5.98
1.65V	315.1	228.6	178.1	108.2	61.9	37.0	28.9	22.9	19.6	13.5	11.3	5.89
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(Note) The above characteristics data are average values obtained within three charge/discharge cycles 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.