



# EV12-110(12V110Ah)



## Specifications

<b>Battery cells</b>	6
<b>Battery voltage</b>	12
<b>Nominal capacity</b>	110Ah at 8pm. to 1.75V per cell at 25°C
<b>Weight</b>	Approx.32.0 Kg (Tolerance±2 %)
<b>Internal resistance</b>	Approx.5.0 mΩ
<b>Terminal</b>	F12(M8)/F5(M8)
<b>Max. discharge current</b>	1100A (5 sec)
<b>Short circuit current</b>	700A
<b>Project life</b>	33.0A
<b>Reference capacity</b>	C3 86.1AH C5 96.5AH C10 105.0AH C20 110.0AH
<b>Charge voltage</b>	13.7V~13.9V at 25°C Temperature compensation: -3mV/°C/elec.
<b>Tension. in cycles</b>	14.6V~14.8V at 25°C Temperature Compensation: -4mV/°C/ elec.
<b>Permissible operating temperature</b>	Rank: -20°C~60°C Charge: 0°C~50°C Storage: -20°C~60°C
<b>Normal operating temperature</b>	25°C±5°C
<b>Self-discharge</b>	RITAR Valve Regulated Lead Acid (VRLA) batteries can to 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
<b>Box material</b>	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.



ISO 9001



ISO 14001



OHSAS 18001

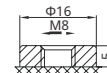
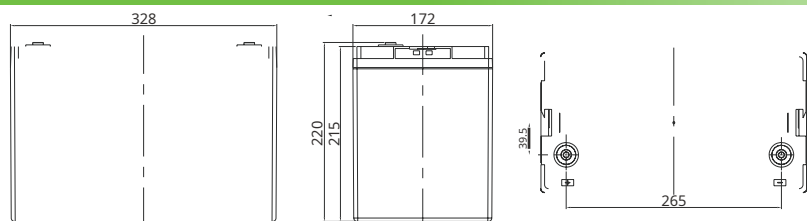


MH 28539



G4M20206-0910-E-16

## Dimensions



F12 Terminal

Length	328±2mm (12.9 inches)	
Width	172±2mm (6.77 inches)	
Height	215±2mm (8.46 inches)	
Top height	220±2mm (8.66 inches)	
Terminals	Value	
M5	6~7	N*m
M6	8~10	N*m
M8	10~12	N*m

Unit: mm

## Characteristics at constant discharge currentA (25)°C

F. V / Tim e	3 0 M IN	1 HR	2 HR	3 HR	4 HR	5 HR	8 HR	1 0 HR	2 0 HR
1.6 0 V	117.7	68.0	40.3	30.6	24.1	20.4	13.5	11.2	5.72
1.6 5 V	115.3	66.7	39.6	30.2	23.8	20.1	13.4	11.1	5.66
1.7 0 V	112.0	65.0	38.7	29.5	23.3	19.8	13.2	11.0	5.60
1.7 5 V	107.6	62.7	37.4	28.7	22.7	19.3	12.9	10.7	5.50
1.8 0 V	101.5	59.5	35.7	27.5	21.9	18.7	12.5	10.5	5.37
1.8 5 V	92.8	55.0	33.2	25.8	20.7	17.8	11.9	10.0	5.17

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

F. V / Tim e	3 0 M IN	1 HR	2 HR	3 HR	4 HR	5 HR	8 HR	1 0 HR	2 0 HR
1.6 0 V	2 14	12 7	76.3	58.5	46.3	39.3	26.4	22.0	11.3
1.6 5 V	2 12	12 6	75.5	58.0	45.9	39.0	26.2	21.9	11.2
1.7 0 V	2 08	12 3	74.0	56.9	45.1	38.5	25.8	21.6	11.0
1.7 5 V	2 01	12 0	72.0	55.5	44.1	37.7	25.3	21.2	10.9
1.8 0 V	1 92	11 4	69.0	53.4	42.6	36.6	24.6	20.7	10.6
1.8 5 V	1 77	10 6	64.6	50.3	40.4	34.8	23.6	19.8	10.2

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