6-EVF-150 (12V150Ah/20HR)

6-EVF-150 is a flooded Lead Acid battery that adopts Tubular Plate technology to offer high reliability and performance. It is specially designed for frequent deep cycle discharge. The Battery is designed and manufactured according to GB/T 7403.1&GB/T 18332.1 standards and with die-casting positive spine and patent formula of active material.Suitable for mobility scooters,electric wheel chairs,golf buggies etc.

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Specification

Voltage Per Unit	12V
Capacity	150Ah@20hr-rate to 1.80V per cell @25℃ 120Ah@5hr-rate to 1.70V per cell @25℃
Approx Weight	Without Electrolyte 28.5 kg Including electrolyte 41.0 Kg
Internal Resistance	Approx. 6.0mΩ
Operating Temperature Range	Discharge:-40℃~60℃ Charge:-20℃~50℃ Storage:-40℃~60℃
Optimal Operating Temperature Range	25℃±5℃
Float charging Voltage	13.8 to 14.4 VDC/unit Average at 25℃
Maximum Charging Current	24A
Cycle Service	15.3 to 15.9 VDC/unit Average at 25℃
Self Discharge	Self-discharge rate less than 3.5% per month at 25℃. Please charge batteries before using.
Container Material	PP

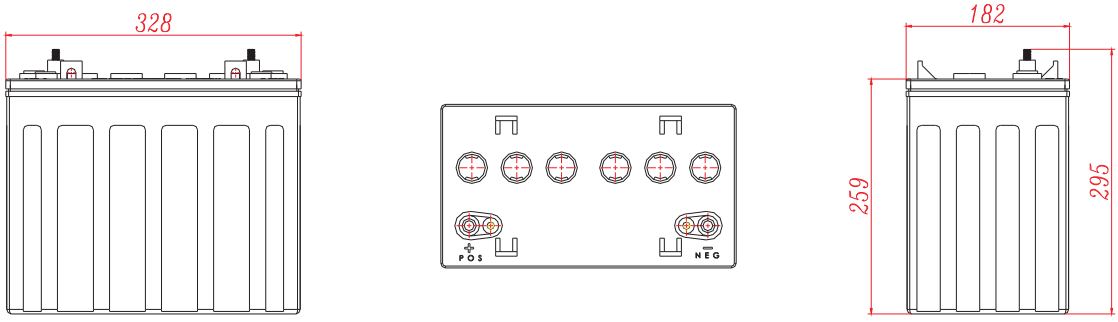
MH28539

G4M20206-0910-E-16

ISO9001:2000 Certificate

Dimensions

Unit: mm Dimension:328(L)×182(W)×295(H)



Constant Current Discharge Characteristics:A(25℃)										
F.V/Time	**30MIN**	**1HR**	**2HR**	**3HR**	**4HR**	**5HR**	**6HR**	**8HR**	**10HR**	**20HR**
9.60V	113.7	79.6	46.1	34.5	28.2	25.3	21.9	17.1	14.1	7.8
9.90V	111.1	77.8	45.1	33.7	27.5	24.7	21.4	16.7	13.8	7.5
10.2V	108.0	75.6	43.8	32.8	26.8	24.0	20.8	16.2	13.4	7.3
10.5V	103.8	72.7	42.1	31.5	25.7	23.1	20.0	15.6	12.9	6.9
10.8V	99.1	69.4	40.2	30.1	24.6	22.0	19.1	14.9	12.3	6.6
11.1V	93.9	65.8	38.1	28.5	23.3	20.9	18.1	14.1	11.6	6.1

Constant Power Discharge Characteristics:W(25℃)										
F.V/Time	**30MIN**	**1HR**	**2HR**	**3HR**	**4HR**	**5HR**	**6HR**	**8HR**	**10HR**	**20HR**
9.60V	1275.6	919.8	543.5	411.0	335.9	301.5	261.3	203.7	168.3	93.5
9.90V	1252.7	900.8	532.3	403.3	329.3	295.6	256.2	199.7	165.1	90.9
10.2V	1231.8	876.9	518.2	393.3	320.8	288.0	249.6	194.4	160.6	87.5
10.5V	1185.6	843.5	498.5	378.1	308.5	276.9	240.0	186.9	154.4	83.4
10.8V	1133.1	809.8	478.6	361.1	294.9	264.5	229.2	178.5	147.4	79.6
11.1V	1079.8	773.2	456.9	342.5	279.4	250.6	217.2	169.2	139.7	73.6

All mentioned values are average values (Tolerance ±2%)

6-EVF-150

12V150Ah/20HR

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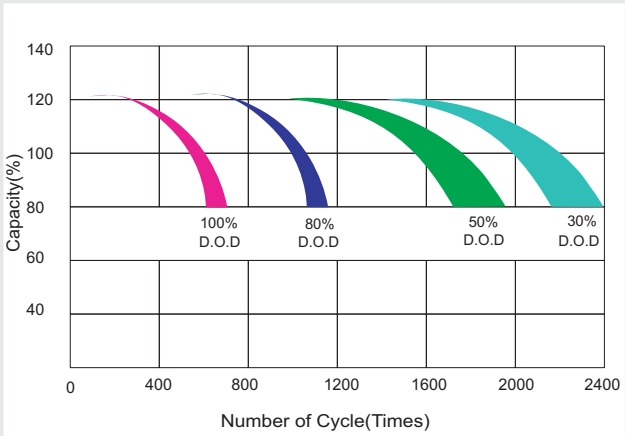
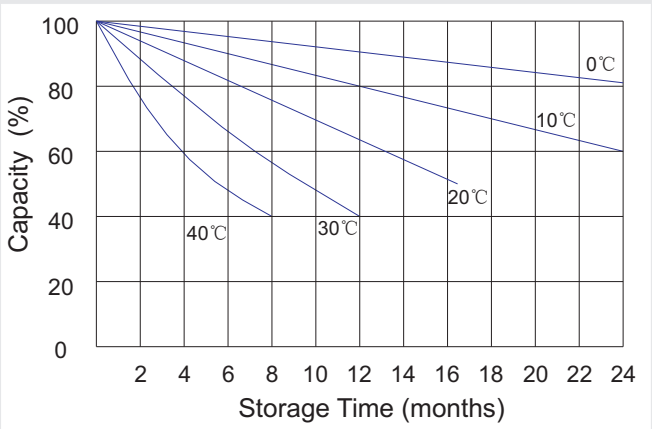
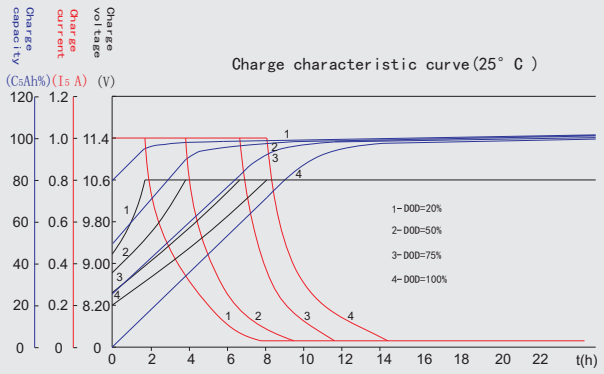
Life characteristics of cyclic use



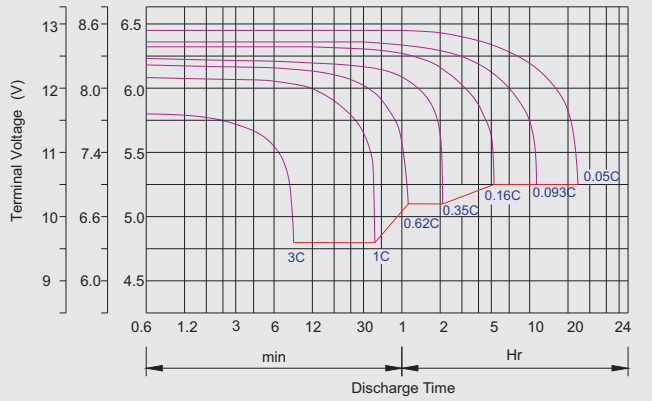
Storage characteristic



Charge characteristic Curve for standby use



Discharge characteristic Curve



Discharge Current VS. Discharge Voltage

Final D ischarge Voltage V /cell	1.75V	1.70V	1.60V
Discharge Current (A)	（A）≤ 24A	24A ＜ （A）＜120A	（A）≥120A

Charge the batteries at least once every six months, if they are stored at 25℃.

Charging Method

Constant Voltage	24Ax2h+2.65V/cellx12h,Max. Current 24A
Constant Current	16.8Ax6h+8.4Ax6h

Maintenance & Cautions

Cycle service
※ Avoid battery over discharge, especially battery sereis connection use.
※ Charged with recommend voltage, ensure battery can be full recharged.
In general, recharge capacity should be 1.2-1.3 times discharge capacity.
※ Effect of temperature on cycle charge voltage: -4mV/℃/Cell.
※ There are a number of factors that will affect the length of cyclic service.
The most significant are depth of discharge, ambient temperature,
discharge rate, and the manner in which the battery is recharged.
Generally specking, the most important factors is depth of discharge.