

# 4-EVF-150

(8V150Ah/5HR)



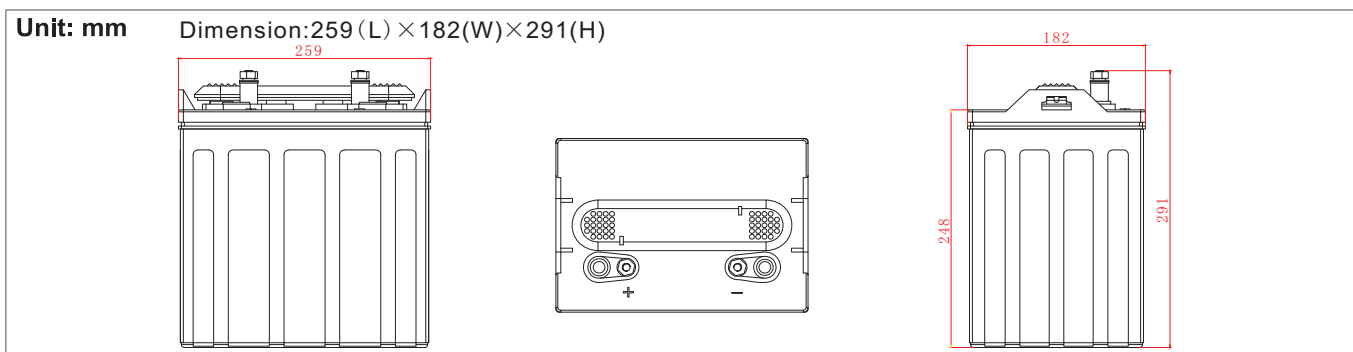
4-EVF-150 is a flooded Lead Acid battery that adopts Tubular Plate technology to offer high reliability and performance. It is specially designed for frequent deep cycle discharge. The Battery is designed and manufactured according to GB/T 7403.1&GB/T 18332.1 standards and with die-casting positive spine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

## Specification

<b>Voltage Per Unit</b>	8V
<b>Capacity</b>	150Ah@5hr-rate to 1.70V per cell @25°C
<b>Approx Weight</b>	Without Electrolyte 22.0 kg Including electrolyte 30.0 Kg
<b>Internal Resistance</b>	Approx. 3.2mΩ
<b>Operating Temperature Range</b>	Discharge:-40°C~60°C Charge:-20°C~50°C Storage:-40°C~60°C
<b>Optimal Operating Temperature Range</b>	25°C±5°C
<b>Float charging Voltage</b>	9.2 to 9.6 VDC/unit Average at 25°C
<b>Maximum Charging Current</b>	30A
<b>Cycle Service</b>	10.6 to 11.4 VDC/unit Average at 25°C
<b>Self Discharge</b>	Self-discharge rate less than 3.5% per month at 25°C. Please charge batteries before using.
<b>Container Material</b>	PP



## Dimensions



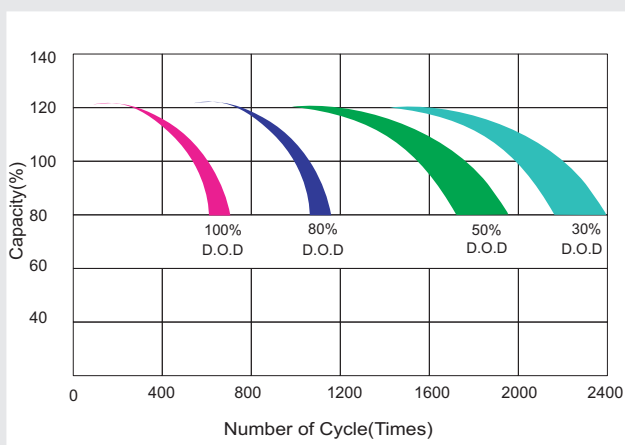
Constant Current Discharge Characteristics:A(25°C)										
F.V/Time	30MIN	1HR	2HR	3HR	4HR	5HR	6HR	8HR	10HR	20HR
6.40V	142.1	99.5	57.6	43.2	35.2	31.6	27.4	21.3	17.6	9.7
6.60V	138.8	97.2	56.3	42.2	34.4	30.9	26.8	20.8	17.2	9.4
6.80V	135.0	94.5	54.8	41.0	33.5	30.0	26.0	20.3	16.7	9.1
7.00V	129.8	90.9	52.6	39.4	32.2	28.8	25.0	19.5	16.1	8.7
7.20V	123.9	86.8	50.3	37.6	30.7	27.5	23.9	18.6	15.4	8.3
7.40V	117.4	82.2	47.6	35.7	29.1	26.1	22.6	17.6	14.6	7.6

Constant Power Discharge Characteristics:W(25°C)										
F.V/Time	30MIN	1HR	2HR	3HR	4HR	5HR	6HR	8HR	10HR	20HR
6.40V	1063.0	766.5	453.0	342.5	279.9	251.2	217.8	169.7	140.3	78.0
6.60V	1044.0	750.7	443.6	336.1	274.4	246.3	213.5	166.4	137.5	75.7
6.80V	1026.5	730.7	431.8	327.7	267.4	240.0	208.0	162.0	133.8	72.9
7.00V	988.0	702.9	415.4	315.1	257.1	230.8	200.0	155.8	128.7	69.5
7.20V	944.2	674.8	398.8	300.9	245.7	220.4	191.0	148.8	122.9	66.4
7.40V	899.8	644.3	380.8	285.4	232.9	208.8	181.0	141.0	116.4	61.3

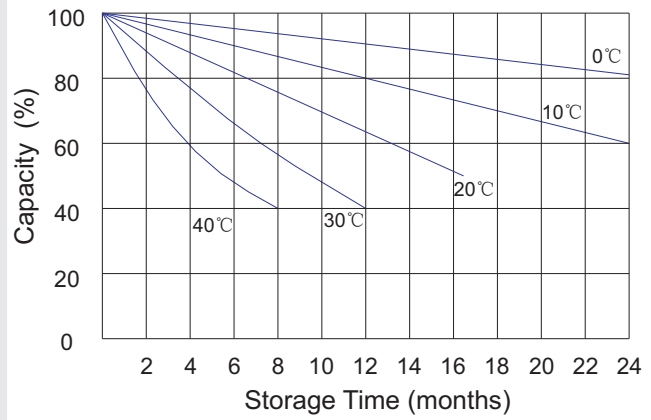
All mentioned values are average values (Tolerance ±2%)



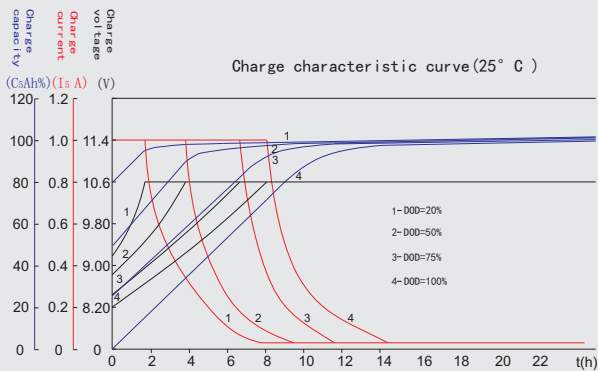
Life characteristics of cyclic use



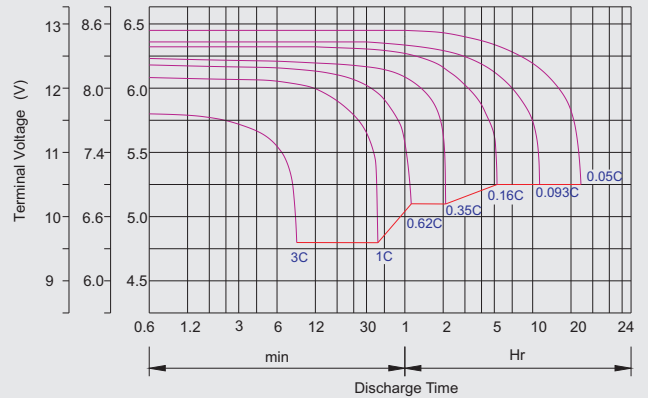
Storage characteristic



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) ≤ 0.2C	0.2C < (A) < 1.0C	(A) ≥ 1.0C

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

Charging Method(C=C<sub>5</sub>):

Constant Voltage	0.2Cx2h+2.65V/cellx12h, Max. Current 0.2C
Constant Current	0.14Cx6h+0.07Cx6h

### Maintenance & Cautions

<b>Cycle service</b>
※ Avoid battery over discharge, especially battery series 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/°C/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 speaking, the most important factors is depth of discharge.

For Battery Sales + EPA Battery Recycling and AC / DC Power Services, please contact:  
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