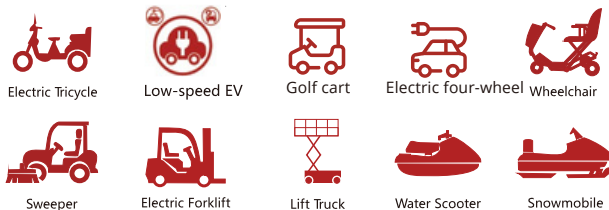




## Product Features

Deep Cycle Series		400~600 Cycle Times @100%DOD	
<b>↑10%</b> Energy Density Patent negative pasting formula	<b>↓50%</b> Grid Corrosion Rare-earth patent alloy	<b>0%</b> Acid stratification Nano silica gel technology	

## Product Applications



## Physical Specification

Model	Dimensions (mm/inch)				Weight (kg/lbs)	Terminal	Container
	Length	Width	Height	Total Height			
6-EVF-58-VT	224/8.82	135/5.31	175/6.89	175/6.89	14.1/31.1	I1	ABS UL94-HB (Optional: FR ABS UL94-V0)

## Product Specifications

Nominal Voltage	Rated Capacity <sup>25°C/77°C</sup>	Operating Temp.Range	Capacity Effected Temp	Capacity vs Storage Time
12V	58.0Ah 20hr Rate (1.80V/cell) 55.6Ah 10hr Rate (1.75V/cell) 54.0Ah 5hr Rate (1.75V/cell) 52.6Ah 3hr Rate (1.75V/cell)	Discharge:-15°C~50°C (5°F~122°F) Charge:0°C~40°C (32°F~104°F) Storage:-15°C~40°C (5°F~104°F) Optimum:25°C±2°C (77°F±5°F)	40°C (104°F):106% 25°C (77°F):100% 0°C (32°F):85% -15°C (5°F):72%	Three months : 90% Six months : 80% Nine months : 60%

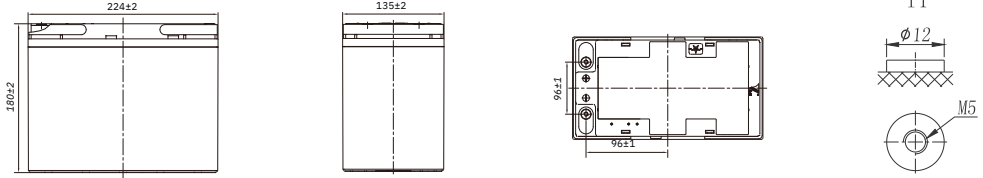
## Constant Current Discharge (A)@25°C (77°F)

F.V/Time	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	65.9	47.0	37.6	21.5	16.3	12.5	10.1	8.54	6.50	5.26	2.80
1.80V/cell	68.2	48.4	38.8	22.3	16.9	13.0	10.5	8.85	6.71	5.42	2.90
1.75V/cell	70.1	50.2	40.2	23.7	17.5	13.4	10.8	9.09	6.91	5.56	2.96
1.70V/cell	71.8	51.5	41.6	24.0	17.9	13.8	11.2	9.40	7.06	5.69	3.02
1.67V/cell	73.3	53.1	43.1	24.3	18.1	13.9	11.3	9.48	7.18	5.77	3.05
1.60V/cell	75.3	54.7	44.0	25.1	18.8	14.3	11.6	9.73	7.34	5.92	3.07

## Constant Power Discharge (W/cell)@25°C (77°F)

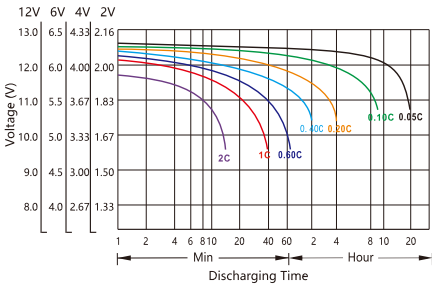
F.V/Time	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	129	92.4	74.4	42.9	32.7	25.2	20.5	17.3	13.2	10.7	5.71
1.80V/cell	133	94.8	76.4	44.2	33.8	26.0	21.1	17.8	13.5	11.0	5.88
1.75V/cell	136	98.1	79.0	46.9	34.9	26.8	21.6	18.2	13.9	11.2	5.97
1.70V/cell	138	99.9	81.3	47.3	35.5	27.4	22.2	18.7	14.1	11.4	6.08
1.67V/cell	140	102.3	83.7	47.6	35.7	27.5	22.4	18.8	14.2	11.5	6.09
1.60V/cell	143	104.6	84.5	48.7	36.6	28.1	22.8	19.1	14.5	11.7	6.13

**Battery Dimensions(mm)**

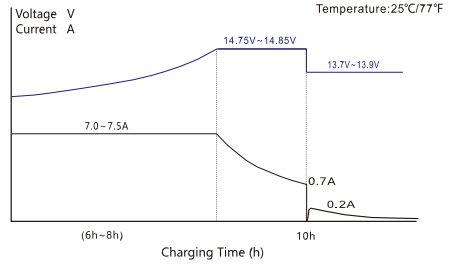


**Electrical Characteristics**

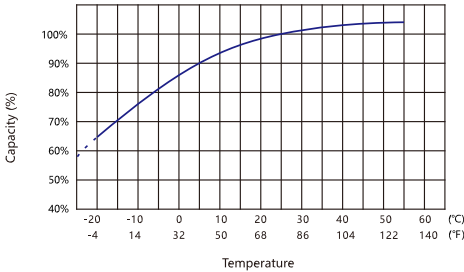
**Discharging Characteristics@25°C(77°F)**



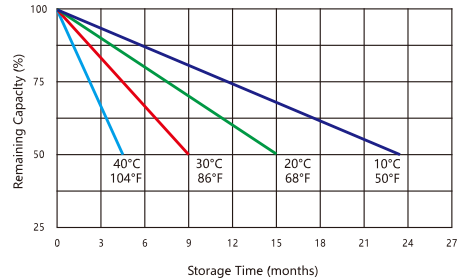
**Charging Characteristics@25°C(77°F)**



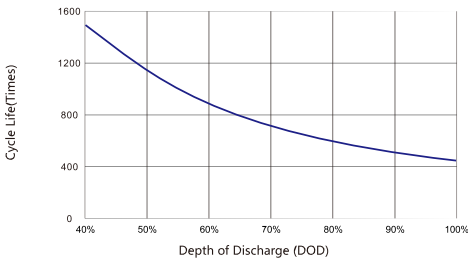
**Capacity vs Temperature**



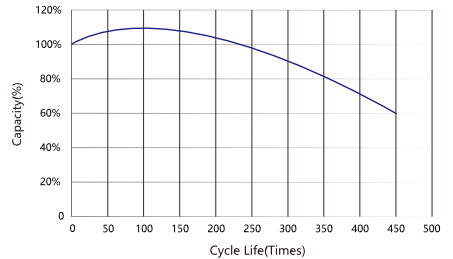
**Self-discharge vs Time**



**Cycle Life vs Depth of Discharge@25°C(77°F)**



**Cycle Life vs Remaining Capacity@25°C(77°F)**



**Usage and Maintenance**

Limited Current	Limited Voltage	Floating Voltage
Limited current: ≤0.15C3A	14.6V-14.8V @25°C(77°F) Temp.Coefficient:-24mV/°C	13.6V-13.8V @25°C(77°F) Temp.Coefficient:-18mV/°C