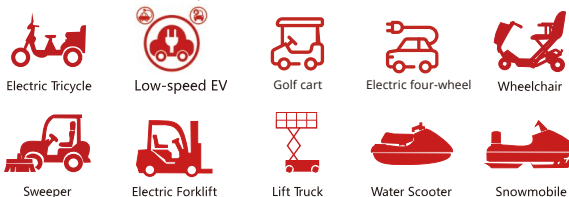




Product Features

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

Product Applications



Physical Specification

Model	Dimensions (mm/inch)				Weight (kg/lbs)	Terminal	Container
6-EVF-52-VT	Length	Width	Height	Total Height	12.6/27.8	I1	ABS UL94-HB (Optional: FR ABS UL94-V0)
	224/8.82	120/4.72	175/6.89	175/6.89			

Product Specifications

Nominal Voltage	Rated Capacity 25°C/77°F	Operating Temp. Range	Capacity Effected Temp	Capacity vs Storage Time
12V	52 Ah 20hr Rate (1.80V/cell)	Discharge: -15°C ~ 50°C (5°F ~ 122°F)	40°C (104°F): 106%	Three months : 90% Six months : 80% Nine months : 60%
	49.9 Ah 10hr Rate (1.75V/cell)	Charge: 0°C ~ 40°C (32°F ~ 104°F)	25°C (77°F): 100%	
	47.7 Ah 5hr Rate (1.75V/cell)	Storage: -15°C ~ 40°C (5°F ~ 104°F)	0°C (32°F): 85%	
	46.6 Ah 3hr Rate (1.75V/cell)	Optimum: 25°C ± 2°C (77°F ± 5°F)	-15°C (5°F): 72%	

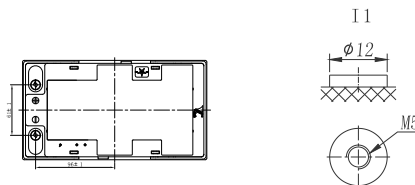
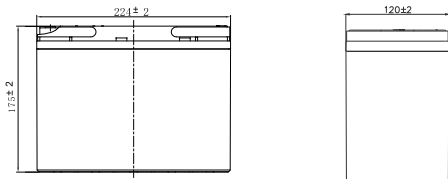
Constant Current Discharge (A)@25°C (77°F)

F.V/Time	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	55.7	39.7	31.8	18.2	14.43	11.17	8.97	7.61	5.85	4.76	2.51
1.80V/cell	57.7	40.9	32.8	18.8	14.97	11.51	9.31	7.89	6.02	4.89	2.60
1.75V/cell	59.3	42.4	34.0	20.0	15.53	11.92	9.54	8.07	6.19	4.99	2.65
1.70V/cell	60.7	43.5	35.2	20.3	15.88	12.31	9.91	8.43	6.34	5.12	2.71
1.67V/cell	62.0	44.9	36.5	20.6	16.08	12.43	10.12	8.48	6.47	5.20	2.73
1.60V/cell	63.6	46.2	37.2	21.2	16.64	12.80	10.34	8.72	6.62	5.36	2.75

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

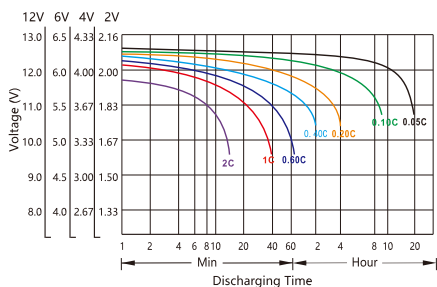
F.V/Time	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	108.9	78.1	62.9	36.3	27.9	21.8	17.7	15.0	11.51	9.38	5.12
1.80V/cell	112.3	80.2	64.6	37.4	28.9	22.4	18.3	15.5	11.82	9.61	5.27
1.75V/cell	114.9	83.0	66.8	39.6	29.8	23.1	18.7	15.8	12.12	9.80	5.35
1.70V/cell	117.1	84.5	68.8	40.0	30.3	23.7	19.3	16.4	12.34	9.98	5.45
1.67V/cell	118.6	86.5	70.8	40.2	30.5	23.8	19.5	16.4	12.46	10.06	5.46
1.60V/cell	120.7	88.5	71.5	41.2	31.3	24.3	19.8	16.7	12.67	10.27	5.49

Battery Dimensions(mm)

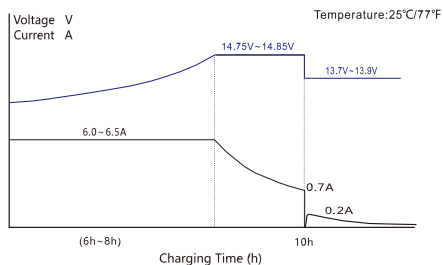


Electrical Characteristics

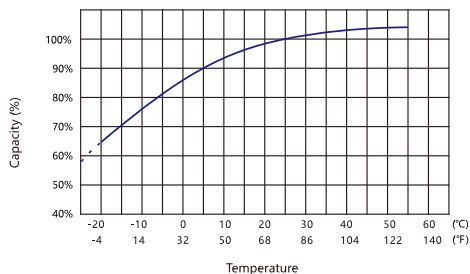
Discharging Characteristics@25°C(77°F)



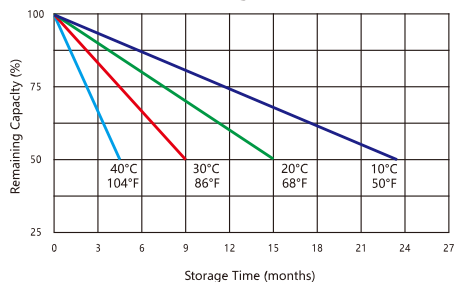
Charging Characteristics@25°C(77°F)



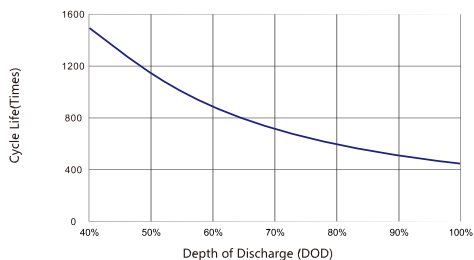
Capacity vs Temperature



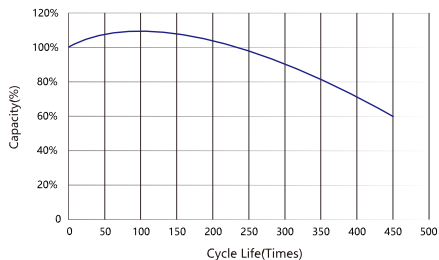
Self-discharge vs Time



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 current: ≤0.15C3A

Limited Voltage

14.6V~14.8V@25°C(77°F)
Temp.Coefficient:-24mV/°C

Floating Voltage

13.6V~13.8V @25°C(77°F)
Temp.Coefficient:-18mV/°C