

Product usage configuration requirements:

## 6-EVF-38

VRLA gel battery for electric vehicle

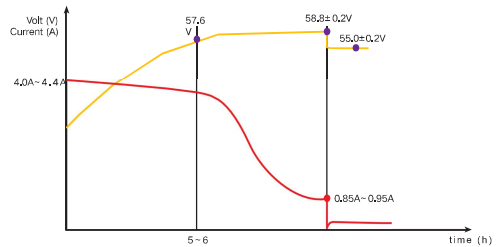


1. Controller parameters  
 under voltage protection: 10.50V/pc  
 over current protection: 38A

2. Motor parameter  
 Running current: ≤18A  
 Motor power ≤800W

Specifications		
Rated volt (V)		12 V
Rated capacity (3hr)		38 Ah
Dimensions	Length	222 mm
	Width	106 mm
	Height	167 mm
	Total height	175 mm
Ref.weight (kg)		10.5 ±0.2 Kgs
Performance parameter		
Rated capacity (25°C)	2hr capacity(17.5A discharge): 35Ah	
	3hr capacity(12.7A discharge): 38Ah	
	10hr capacity(4.0A discharge): 40Ah	
Battery capacity at different temp. (3hr)	40°C	102%
	25°C	100%
	0°C	85%
	-18°C	60%
Storage capacity (25°C)	3 months	90%
	6 months	80%
	9 months	65%
Limited voltage charge(25°C)	Cycle use	max.charge current 4.0-4.4A
		14.65V-14.75V/pc
	Float charge	13.7V-13.8V/pc

6-EVF-38 (4pcs/group 25°C ±2°C ) charge curve

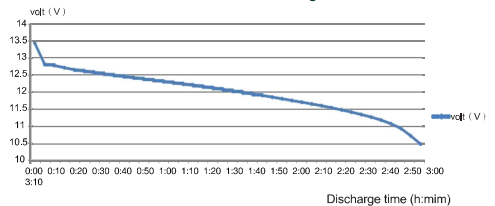


1st phase: max. current 4.0A~4.4A voltage continuously increases to 57.6V

2nd phase: voltage continuously increases from 57.6V to 58.8±0.2V, Current continuously decreased to 0.85~0.95A, then converted to float charge (trickle charge).

3rd phase: float charge constant voltage 55±0.2V Temp. compensation coefficient: 2.5~4.0mV/(single cell °C)

6-EVF-38 ( 25°C ±2°C ) discharge curve



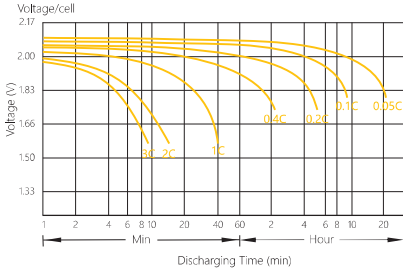
### CERTIFIED QUALITY

All products are tested and certified to multiple standard. Designed in accordance with and published in compliance with applicable BCI, IEC and BS EN standards.

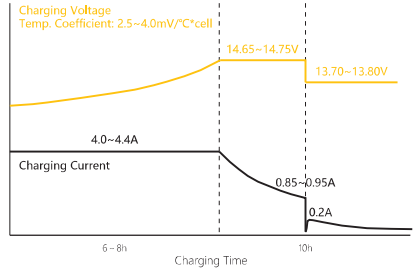
ISO 16949/ ISO 9001/ ISO 14001/ ISO 45001  
 IATA / SP 238 / CE



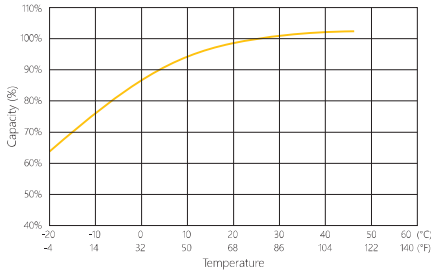
### Discharging Characteristics (25°C/77°F)



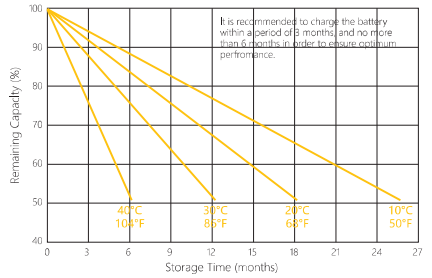
### Charging Characteristics (25°C/77°F)



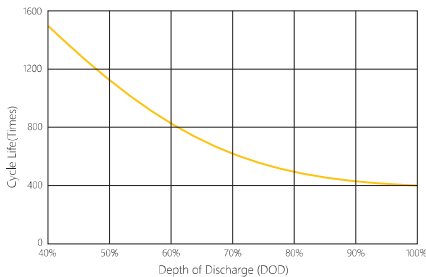
### Capacity vs Temperature



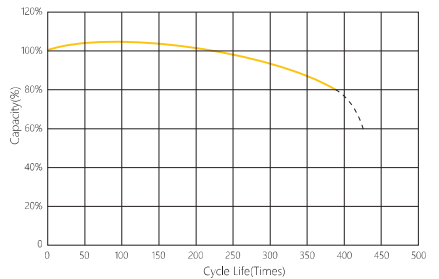
### Self-discharge vs Time



### Cycle Life vs Depth of Discharge (25°C/77°F)



### Cycle Life vs Remaining Capacity (25°C/77°F)



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