6-EVF-45

VRLA gel battery for electric vehicle



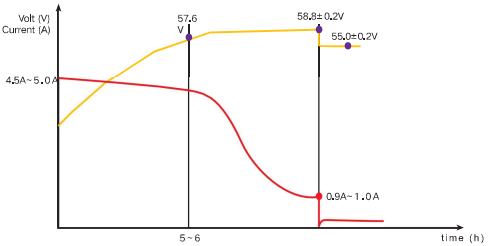
Product usage configuration requirements:

1.Controller parameters
under voltage protection: 10.50V/pc
over current protection: 40A

2.Motor parameter
Running current: ≤20A
Motor power ≤850W

Specifications		
Rataed volt (V)		12 V
Rated capacity (3hr)		45 Ah
Dimensions	Length	226 mm
	Width	120 mm
	Height	168 mm
	Totaⅰ height	175 mm
Ref.weight (kg)		12.0±0.2 Kgs
Performance parameter		
Rated capacity (25℃)	2hr capacity(20A discharge): 40Ah	
	3hr capacity(15A discharge): 45Ah	
	10hr capacity(4.8A discharge): 48Ah	
Battery capacity at different temp. (3hr)	40℃	102%
	25℃	100%
	0℃	85%
	-18℃	60%
Storage capacity (25℃)	3 months	90%
	6 months	80%
	9 months	65%
Limited voltage charge(25℃)	Cycle use	max.charge current 4.5-5.0A
		14.65V-14.75V/pc
	Float charge	13.7V-13.8V/pc

6-EVF-45 (4pcs/group 25℃±2℃) charge curve

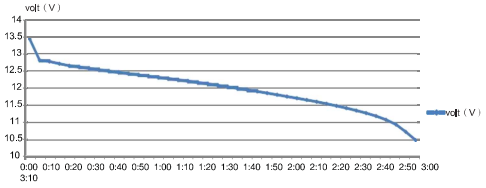


1st phase: max. current 4.5A~5.0A voltage continuously increases to 57.6V

2nd phase: voltage continuously increases from 57.6V to 58.8±0.2V , Current continuously decreased to 0.9~1.0A, then converted to float charge (trickle charge).

3rd phase: float charge constant voltage 55±0.2V Temp. compensation coefficient: 2.5-4.0mV(singe cell ℃)

6-EVF-45 (25℃±2℃) discharge curve



CERTIFIED QUALITY

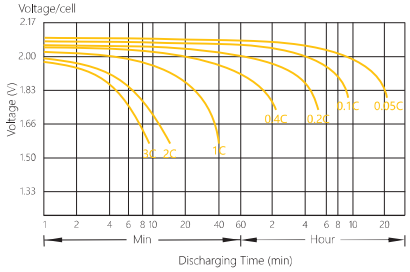
All products are tested and certified to multiple standard.
Designed in accordance with and published in compliance with applicable BCI, IEC and BS EN standards.

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

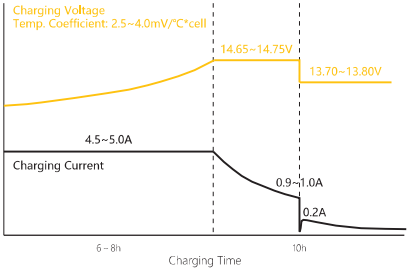
6-EVF-45

12V45Ah @2hr
12V52Ah @20hr

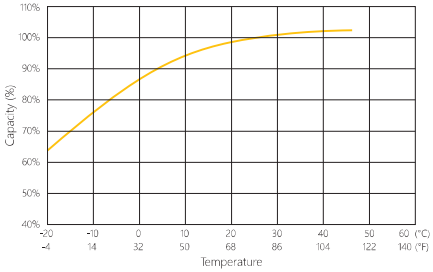
Discharging Characteristics (25°C/77°F)



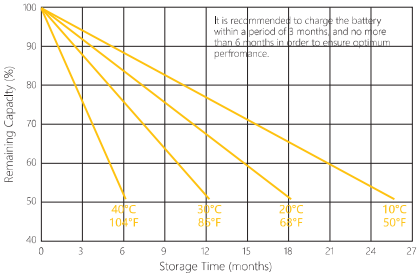
Charging Characteristics (25°C/77°F)



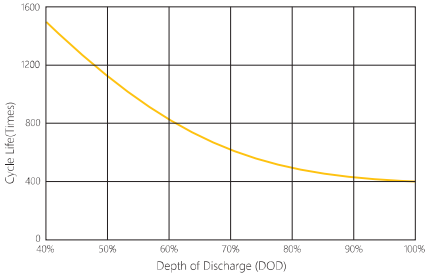
Capacity vs Temperature



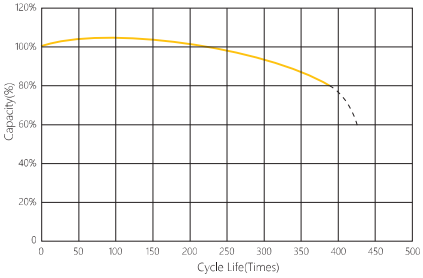
Self-discharge vs Time



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



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



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