

A Reliable Power Solution Provider

12V 38Ah(3hr) VRLA GEL BATTERY



Chilwee EVF/DZM Series VRLA Gel Battery is specially designed for motive power applications, i.e. electric bicycles, electric tricycles, electric motocycles and other device require DC power source. The EVF/DZM Series adopts international leading technologies to ensure the batteries with features of long cycle life, large current discharge capability, high reliability and safety, and environmentalfriendly.

FEATURES

Non-Cadmium Design, Environment-friendly: Chilwee Battery has adopted internationally leading technology - container formation non-cadmium production technology, which is in the leading position in the industry. It helps to save energy 28.5%, save water 90%, and non-discharge of waste water.

Super Long Voyage Ability: The discharge time of Chilwee battery is prolonged. Active additive has been added in postive plates, so as to good consistency of the formated active material. This enables the battery has high charge/discharge efficiency, and the power output is elevated.

Strong Motive Power: Super thin plate design is adopted to increase the area of the plates macroscopic electrochemical reaction, which enables the battery has excellent large current discharge ability. Adopting cast-weld process to reduce the battery's internal resistance, and it improves battery charging acceptance capability. Battery's charge/discharge efficiency is high.

High Durability: The Chilwee battery has excellent cycle life which can reach 600 cycles @ 80% DOD. The battery banks has good consistency. Enhanced ABS material has been adopted on battery container and lid, and the battery is well sealed to prevent leakage.

High Reliability and Safety: Improved negative material prescription and increased micropoles structure at negative helps to improve a lot on low temperature charge/discharge performance. Low water loss rate, high temperature resistance, and the pressure value of Open/Close safety valve is accurate to prevent battery bulging. Safety valve and acid filter can efficiently prevent sparks splashed into battery to ensure safe operation.

SPECIFICATION

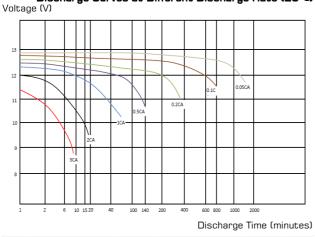
Nominal Voltage (V)		12V		
Open Circuit Voltage (V/Block)		13.1V - 13.45V		
Number of Cells (Per Block)		6 Cells		
Rated Capacity (Ah, 25℃)	2h rate (to 1.75V/Cell)	35Ah		
	3h rate (to 1.75V/Cell)	38Ah		
	5h rate (to 1.80V/Cell)	40Ah		
	20h rate (to 1.85V/Cell)	42Ah		
Nominal Weight (Kgs)		Approx. 11.7 Kgs		
Dimension (L X W X H, Total Height. mm)		(222mm±2) X (106mm±2) X (171mm±2), (171mm±2)		
Container Material		Enhanced ABS		
Charge Voltage	Float (V/Block)	13.50V - 13.80V		
	Cycle (V/Block)	14.50V - 14.80V		
Maximum Discharge Current (A)		260A (5s)		
Maximum Charge Current (A)		4.4A		

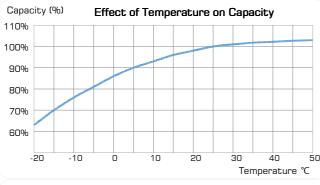


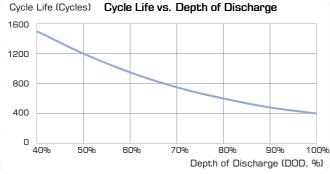
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6-EVF-38

Discharge Curves at Different Discharge Rate (25°C)

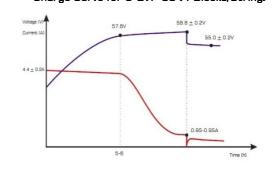






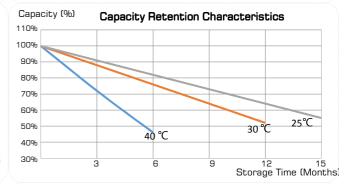
Charge Curve for 6-EVF-38 (4 Blocks/String)

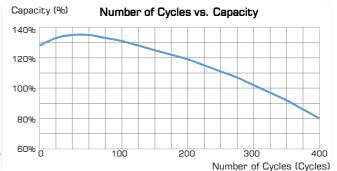
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Phase 1: The Max. charge current is 4.4A, and the charge voltage is gradually risen up to 57.6V;

Phase 2: The charge voltage is gradually risen up to 58.8V+ 0.2V. When the charge current has dropped to 0.85A-0.95A, shifting to float charge.
Phase 3: The constant float charge voltage is 55.0V+ 0.2V.





RECOMMENDED SETTING PARAMETERS

ltem		48V Battery Bank	60V Battery Bank	72V Battery Bank
Charger Parameters	Max. Charge Voltage (V)	58.6V-59.0V	73.3V-73.7V	88.0V-88.2V
	Float Charge Voltage (V)	54.8V-55.2V	68.6V-68.9V	82.3V-82.7V
	Max. Charge Current (A)	4.0A-4.4A	4.0A-4.4A	4.0A-4.4A
	Shifting Current (A)	0.85A-0.95A	0.85A-0.95A	0.85A-0.95A
	Temperature Compensation Coefficient (mV/°C/Cell)	2.5~4.0mV/℃/Cell	2.5∼4.0mV/℃/Cell	2.5∼4.0mV/℃/Cell
Controller Parameters	Under-voltage Protection (V)	42V±0.5V	52.5V±0.5V	63V±0.5V
	Limited Current (A)	≪40A	≪40A	≪40A
	Turn-on Lock Current (A)	≪0.3A	≤0.3A	≤0.3A
Electrical Motor Parameters	Average Current (A)	≤18A	≤18A	≤18A
	Motor Power (W)	≤650W	≤700W	≤750W

* All the data and technical curves are for customer's reference only. This information is subject to change without any prior notice.

For More Information, please contact:

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