

A Ralable Power Solution Provider

6-EVF-38

12V 38Ah(3hr) VRLA GEL BATTERY



Chilwee DZM Series VRLA Gel Battery is specially designed for motive power applications, i.e. electric bikes/scooters, electric tricycles, electric motocycles and other device require DC power source. The 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 environmental-friendly.

FEATURES & BENEFITS

Non-Cadmium Design, Environment-friendly: Chilwee Battery has adopted internationally leading technology - Non-Cadmium container formation Production Process 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 Mileage: Special active additives have been added in the positive plate to improve the consistency of the formated active material after formation. This has been obviously improved the battery's charge/discharge efficiency, and more power can be released during discharging. The mileage of each discharge is improved significantly.

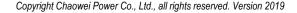
Strong Motive Power: Super thin plate design is adopted to increase the area of electrochemical reaction, which enables the battery has excellent large current discharge ability. Adopting cast-welding process to reduce the battery's internal resistance, so the battery's charge/discharge efficiency is improved to enable battery with large power discharge capability.

Long Service Life: The Chilwee battery has excellent cycle life which can reach 600 cycles @ 80% DOD. The batteries are well grouped to improve the battery bank's consistency in order to improve the battery bank's service life.

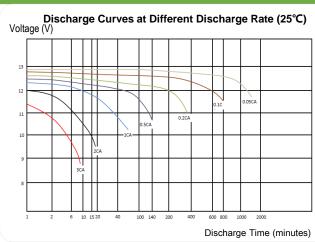
Non-Spillable and High Safety: The battery container and lid are made of Enhanced ABS material and they are sealed by epoxy resin, so the battery is well sealed without any acid leakage issue. High accuracy safety valve has been applied to prevent battery bulging, and safety valve and acid filter are used for preventing sparks splashed into battery to ensure the safety use of battery.

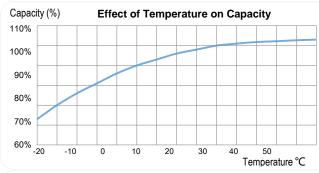
High Reliability: Improved negative material prescription and increased micropoles structure at negative helps to improve a lot on charge/discharge performance at extreme temperature condition. Low water loss rate, high temperature resistance, and battery deformation resistance.

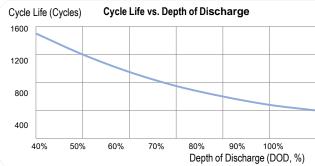
SPECIFICATION						
Nominal Voltage (V)		12V				
Open Circuit Voltage (V/Block)		13.1V - 13.45V				
Number of Cells (Per Block)		6 Cells				
2h rate (to 1.75V/Cell)	35Ah					
3h rate (to 1.75V/Cell)	38Ah					
5h rate (to 1.80V/Cell)	40Ah					
10h rate (to 1.80V/Cell)	42Ah					
20h rate (to 1.85V/Cell)	44Ah					
Nominal Weight (Kgs)		Approx. 9.5±0.2 Kgs				
Dimension (L X W X H, Total Height. mm)		(222mm±2) X (106mm±2) X (171mm±2), (171mm±2)				
Container Material		Enhanced ABS				
Float (V/Block)	13.50V - 13.80V					
Cycle (V/Block)	14.60V - 14.80V					
Maximum Discharge Current (A)		260A (5s)				
Maximum Charge Current (A)		4.4A				
Working Temperature(°C)		-20 °C to 50 °C				
		20°C to 30°C				
Storage Temperature($^{\circ}$ C)		-20°C to 50°C				
	2h rate (to 1.75V/Cell) 3h rate (to 1.75V/Cell) 5h rate (to 1.80V/Cell) 10h rate (to 1.80V/Cell) 20h rate (to 1.85V/Cell) Height. mm) Float (V/Block) Cycle (V/Block)	2h rate (to 1.75V/Cell) 3h rate (to 1.75V/Cell) 5h rate (to 1.80V/Cell) 10h rate (to 1.80V/Cell) 20h rate (to 1.85V/Cell) Height. mm) (222mm.	13.1V - 13.45V 6 Cells 2h rate (to 1.75V/Cell) 35Ah 3h rate (to 1.75V/Cell) 40Ah 10h rate (to 1.80V/Cell) 42Ah 20h rate (to 1.85V/Cell) 44Ah Approx. 9.5±0.2 Kgs Height. mm) (222mm±2) X (106mm±2) X (171mm±2), (171mm±2) Enhanced ABS Float (V/Block) Cycle (V/Block) 4.60V - 14.80V A) Operation (maximum): -20 ℃ to 50 ℃ Operation (recommended): 20 ℃ to 30 ℃			









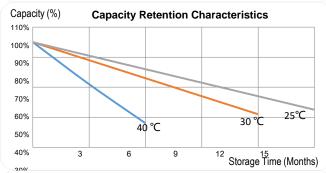


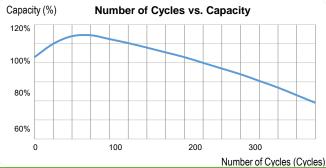
Voltage 107 Corrert (A) 57 6V 58 8 ± 0.2V 55 0 ± 0.2V

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

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.





RECOMMENDED SETTING PARAMETERS

It	em	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-69.0V	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/°C/Cell	2.5∼4.0mV/°C/Cell	2.5~4.0mV/°C/Cell
Controller Parameters	Low-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
Electric Motor Setting	Average Current (A)	≤18A	≤18A	≤18A
	Electric Motor Power (W)	≤600W	≤700W	≤800W

^{*} 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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