### 6-EVF-52.

### 12V 52Ah(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 formate 3 active material after formation. This has been obviously improved the battery's charge/discharge efficiency, and more power can b a 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 th battery has excellent large current discharge ability. Adopting cast-welding process to reduce the battery's internal resistance, s 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 epox / resin, so the battery is well sealed without any acid leakage issue. High accuracy safety valve has been applied to prevent batter / 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		
Rated Capacity (Ah, 25°C)	2h rate (to 1.75V/Cell)	45Ah		
	3h rate (to 1.75V/Cell)	52Ah		
	5h rate (to 1.80V/Cell)	54Ah		
	10h rate (to 1.80V/Cell)	58Ah		
	20h rate (to 1.85V/Cell)	62Ah		
Nominal Weight (Kgs)		Approx.14.Kg		
Dimension (L X W X H, Total Height. mm)		(226mm±2) X (135mm±2) X (175mm±2), (175mm±2)		
Container Material		Enhanced ABS		
Charge Voltage	Float (V/Block)	13.50V - 13.80V		
	Cycle (V/Block)	14.60V - 14.80V		
Maximum Discharge Current (A)		310A (5s)		
Maximum Charge Current (A)		5A		

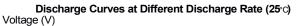


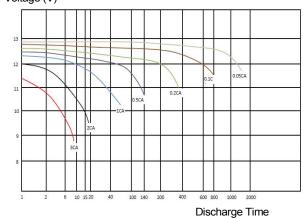
# A Balable Power Solution Provider

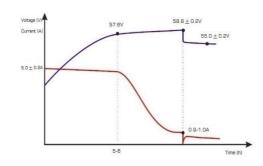
Working Tomporaturo(co)	Operation (maximum):	-20°c to 50°c
Working Temperature(°C)	Operation (recommended):	20°C to 30°C
Storage Temperature(°C)		-20°c to 50°c

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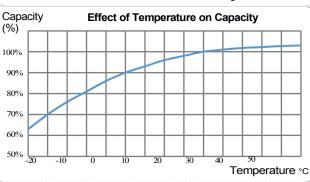


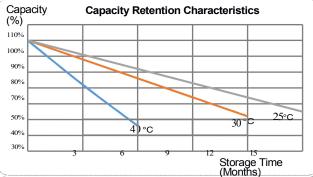


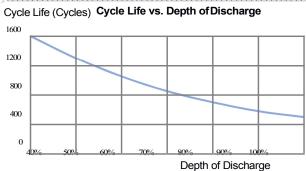
Charge Curve for 6-EVF-51 (4 Blocks/String)

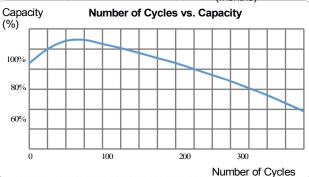
Phase 1: The Max. charge current is 5A, and the charge voltage is gradually risen up to 57.6V;

Phase 2: The charge voltage is gradually risen up to 58.8V+
0.2V.When the charge current has dropped to 0.9A-1.0A, shifting to float charge.









### RECOMMENDED SETTING PARAMETERS

lte m		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)	4.5A-5.0A	4.5A-5.0A	4.5A-5.0A
	Shifting Current (A)	0.9A-1.0A	0.9A-1.0A	0.9A-1.0A
	Temperature Compensation Coefficient (mV/°d/Cell)	2.5~4.0mV/°d/Cell	2.5~4.0mV/°CCell	2.5~4.0mV/°d'Cell
Controller Parameters	Low-voltage Protection (V)	42V±0.5V	52.5V±0.5V	63V±0.5V
	Limited Current (A)	≤40A	≤ <b>40</b> A	≤ <b>40</b> A
	Turn-on Lock Current (A)	≤0.3A	⊴0.3A	⊴0.3A
Electric Motor Setting	Average Current (A)	≤ <b>22</b> A	≤20A	≤20A
	Electric Motor Power (W)	≤600W	≤ <b>700W</b>	≤800W

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

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