

A Ralable Power Solution Provider

8-DZM-20

16V 20Ah(2hr) 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.

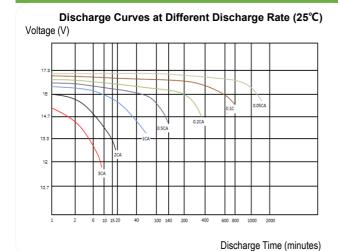
SPECIFICATION						
Nominal Voltage (V)		16V				
Open Circuit Voltage (V/Block)		17.4V - 17.9V				
Number of Cells (Per Block)		8 Cells				
Rated Capacity (Ah, 25 ℃)	2h rate (to 1.75V/Cell)	20Ah				
	3h rate (to 1.75V/Cell)	22Ah				
	5h rate (to 1.80V/Cell)	24Ah				
	10h rate (to 1.80V/Cell)	26Ah				
	20h rate (to 1.85V/Cell)		28Ah			
Nominal Weight (Kgs)		Approx. 9.8 Kgs				
Dimension (L X W X H, Total Height. mm)		(250mm±2) X (100mm±2) X (129mm±2), (132mm±2)				
Container Material		Enhanced ABS				
Charge Voltage	Float (V/Block)	18V - 18.4V				
	Cycle (V/Block)	19.5V - 19.7V				
Maximum Discharge Current (A)		150A (5s)				
Maximum Charge Current (A)		2.7 A				
Working Temperature(°C)		Operation (maximum):	-20 °C to 50 °C			
		Operation (recommended):	20℃ to 30℃			
Storage Temperature(°C)			-20 °C to 50 °C			

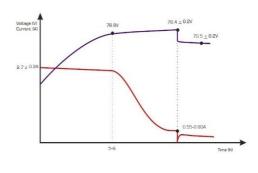


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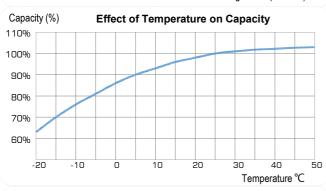


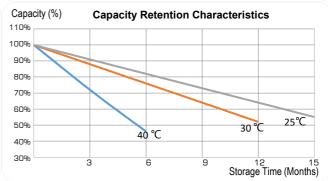
Charge Curve for 8-DZM-20 (4 Blocks/String)

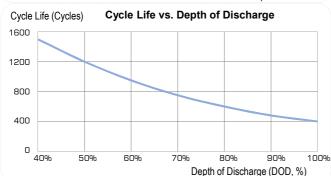
Phase 1: The Max. charge current is 2.7A, and the charge voltage is gradually risen up to 76.8V;

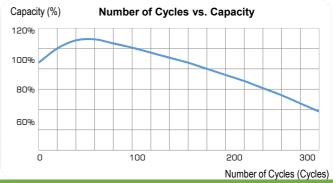
Phase 2: The charge voltage is gradually risen up to 78.4V+ 0.2V.When the charge current has dropped to 0.55A-0.60A,shifting to float charge.

Phase 3: The constant float charge voltage is 73.5V+ 0.2V.









RECOMMENDED SETTING PARAMETERS

Item		48V Battery Bank (3 Blocks)	64V Battery Bank (4 Blocks)	80V Battery Bank (5 Blocks)
Charger Parameters	Max. Charge Voltage (V)	58.5V-59.1V	78.1V-78.7V	97.8V-98.2V
	Float Charge Voltage (V)	54.7V-55.3V	73.2V-73.8V	91.5V-91.9V
	Max. Charge Current (A)	2.3A-2.7A	2.3A-2.7A	2.5A-2.9A
	Shifting Current (A)	0.55A-0.60A	0.55A-0.60A	0.55A-0.60A
	Temperature Compensation Coefficient (mV/°C/Cell)	2.5~4.0mV/°C/Cell	2.5~4.0mV/℃/Cell	2.5~4.0mV/°C/Cell
Controller Parameters	Low-voltage Protection (V)	42V±0.5V	56V±0.5V	70V±0.5V
	Limited Current (A)	≤25A	≤25A	≤25A
	Turn-on Lock Current (A)	≤0.15A	≤0.15A	≤0.15A
Electric Motor Setting	Average Current (A)	≤10A	≤10A	≤10A
	Electric Motor Power (W)	≤450W	≤600W	≤600W