

# A Relable Power Solution Provider

### 6-DZM-22.2

## 12V 22.2Ah(2hr) GRAPHENE VRLA BATTERY



Chilwee BG (BLACK GOLD) Series high energy VRLA Battery is specially designed based on Graphene Technology, which has obviously improve the battery's capacity, output power, cycle life and high/low temperature performance. The Chilwee BG (BLACK GOLD) Series provides longer range, larger power and extremely long life for motive power applications, i.e. electric bicycles, electric tricycles, electric motorcycles and other device require DC power source.

### FEATURES & BENEFITS

- \* Designed based on Graphene Technology enables the BG (BLACK GOLD) series Battery with the the features of excellent long range, larger power and extremely long life.
- \* Unique structure of battery container and lid to ensure excellent gas recommendation efficiency, less gas released so that water loss rate is reduced.
- \* Sepcial grid alloy material and special lead paste prescription have been utilized to resist corrosion on plates, prolong the life of the battery.
- \* Increased positive active material to improve the battery's initial capacity and service life.
- \* Redesigned battery container and terminal, more attractive appearance and easy for installation.

### COMPARISON BETWEEN BG SERIES AND STANDARD BATTERY

TESTING ITEM	STANDARD BATTERY	BLACK GOLD SERIES	COMPARISON
INITIAL CAPACITY, FOR THE FIRST 3 CYCLES	20.2AH	22.2AH	10% IMPROVED
CAPACITY , AFTER 69 CYCLES	21AH	24.5AH	16% IMPROVED
DISCHARGE TIME @ END-VOLTAGE : 12V	65 MINUTES	90 MINUTES	34% IMPROVED
WATER LOSS RATE	0.1 GRAM / CYCLE	0.06 GRAM/ CYCLE	40% DECREASED
DISCHARGE TIME @ -15 ℃	94 MINUTES	112 MINUTES	18% IMPROVED
CYCLE LIFE @ 100% DOD	400 CYCLES	610 CYCLES	52% IMPROVED

### **SPECIFICATION**

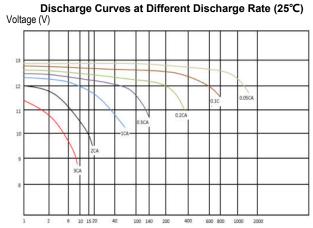
Nominal Voltage (V)		12V		
Open Circuit Voltage (V/Block)		13.1V - 13.45V		
Number of Cells (Per Block)		6 Cells		
Rated Capacity (Ah, 25°C)	2h rate (to 1.75V/Cell)	22.2Ah		
	3h rate (to 1.75V/Cell)	24Ah		
	5h rate (to 1.80V/Cell)	26Ah		
	10h rate (to 1.80V/Cell)	28Ah		
	20h rate (to 1.85V/Cell)		30Ah	
Nominal Weight (Kgs)		Approx. 7.1 Kgs		
Dimension (L X W X H, Total Height. mm)		(181mm±0.5) X (78mm±0.5) X (172mm±0.5), (172mm±0.5)		
Container Material		Enhanced ABS		
Charge Voltage	Float (V/Block)	13.50V - 13.80V		
	Cycle (V/Block)	14.60V - 14.80V		
Maximum Discharge Current (A)		150A (5s)		
Maximum Charge Current (A)		2.9 A		
Working Temperature(°C)		Operation (maximum):	-20°C to 50°C	
		Operation (recommended):	20°C to 30°C	
Storage Temperature(°C)			-20°C to 50°C	



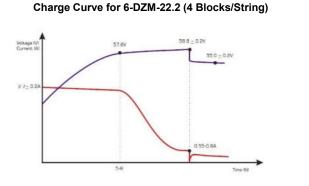
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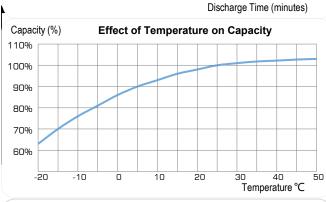


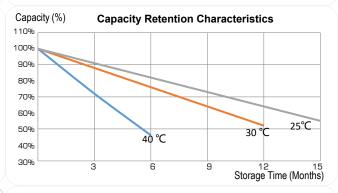


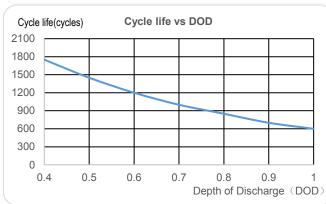


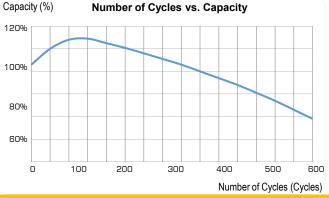
Phase 1: The Max. charge current is 2.7A, and the charge voltage is gradually

Phase 2: The charge voltage is gradually risen up to 58.8V+ 0.2V.When the charge current has dropped to 0.55A-0.6A, shifting to float charge. **Phase 3**: The constant float charge voltage is 55.0V+ 0.2V.









### RECOMMENDED SETTING PARAMETERS

Ite	em	48V Battery Bank	60V Battery Bank	72V Battery Bank
Charger Parameters	Max. Charge Voltage (V)	58.6V-59V	73.3V-73.7V	88.0V-88.4V
	Float Charge Voltage (V)	54.8V-55.2V	68.6V-69.0V	82.3V-82.7V
	Max. Charge Current (A)	2.7A-2.9A	2.7A-2.9A	2.7A-2.9A
	Shifting Current (A)	0.55A-0.6A	0.55A-0.6A	0.55A-0.6A
	Temperature Compensation Coefficient (mV/°C/Cell)	2.5~4.0 mV/℃/Cell	2.5~4.0mV/℃/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)	≤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	≤650W

<sup>\*</sup> 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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