

6-DZF-13 Premium series 12V 13Ah(2hr) GRAPHENE VRLA GEL BATTERY



Chilwee BG (BLACK GOLD) Series high energy VRLA gel 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.
For more information, please contact us at info@cwintl.com.

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 recombination efficiency, less gas released so that water loss rate is reduced.
- * Special 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	12.2AH	13AH	10% IMPROVED
CAPACITY , AFTER 69 CYCLES	13AH	15AH	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 °C	94 MINUTES	112 MINUTES	18% IMPROVED
CYCLE LIFE @ 100% DOD	400 CYCLES	550 CYCLES	38% IMPROVED

SPECIFICATION

Nominal Voltage (V)		12V
Open Circuit Voltage (V/Block)		13V - 13.45V
Number of Cells (Per Block)		6 Cells
Rated Capacity (Ah, 25°C)	2h rate (to 1.75V/Cell)	13Ah
	3h rate (to 1.75V/Cell)	14Ah
	5h rate (to 1.80V/Cell)	14.5Ah
	10h rate (to 1.80V/Cell)	15Ah
	20h rate (to 1.85V/Cell)	16Ah
Nominal Weight (Kgs)		Approx. 4.0±0.2 Kgs
Dimension (L X W X H, Total Height. mm)		151mmX99mmX98mm±0.5X98mm
Container Material		Enhanced ABS
Charge Voltage	Float (V/Block)	13.50V - 13.80V
	Cycle (V/Block)	14.60V - 14.80V
Maximum Discharge Current (A)		100A (5s)
Maximum Charge Current (A)		2.0 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

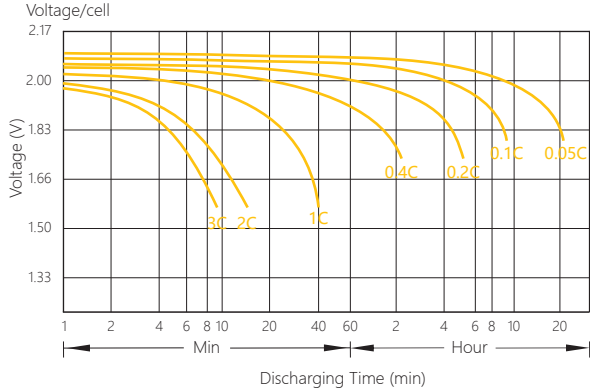
CERTIFIED QUALITY

All products are tested and certified to multiple standard. Designed in accordance with and published in compliance with applicable BCI, IEC and BS EN standards.

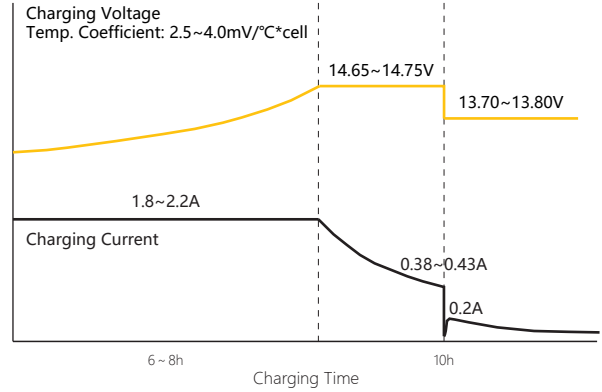
ISO 16949/ ISO 9001/ ISO 14001/ ISO 45001
IATA / SP 238 / CE



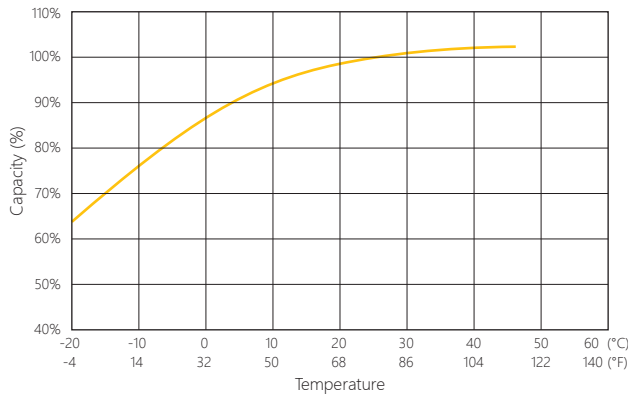
Discharging Characteristics (25°C/77°F)



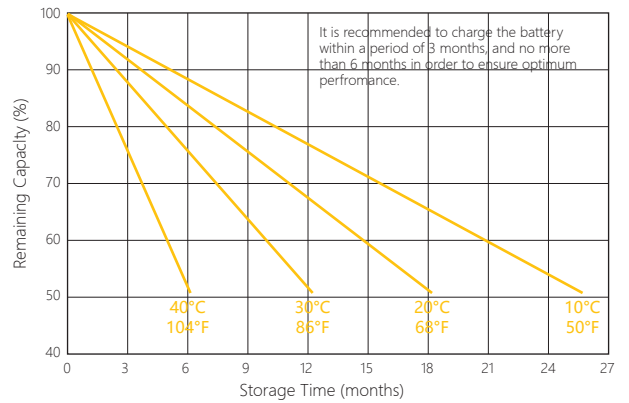
Charging Characteristics (25°C/77°F)



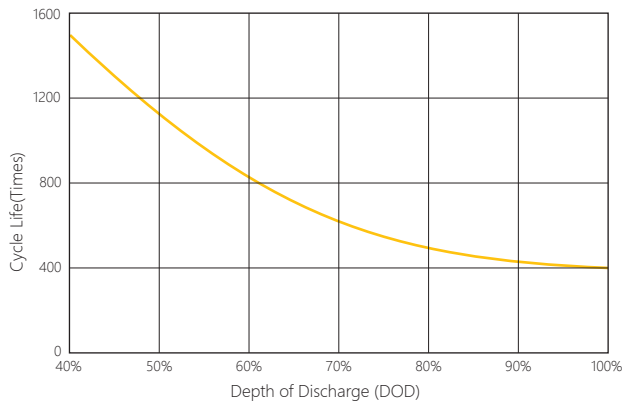
Capacity vs Temperature



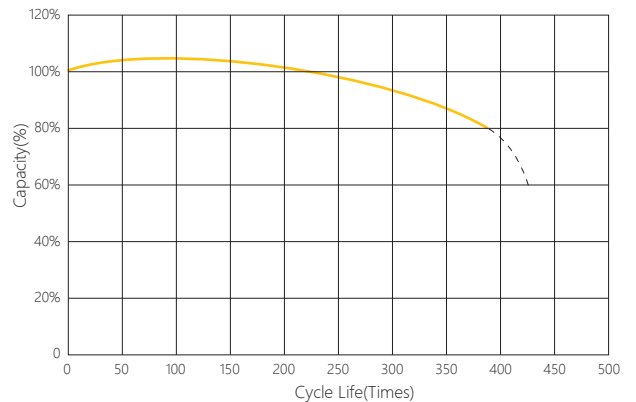
Self-discharge vs Time



Cycle Life vs Depth of Discharge (25°C/77°F)



Cycle Life vs Remaining Capacity (25°C/77°F)



Chilwee reserves the right to make adjustments to this publication at any time without notice or obligation. Data in this publication are for reference only and models may vary from shown. It is the responsibility of the reader to verify any information presented herein.

For more information, please contact us at info@cwprint.com.