



**VISION GROUP**  
Shenzhen Center Power  
Tech.Co.Ltd.,

# CG12-200ZCA-X

12V 200Ah(10hr)

## Overview

The rechargeable batteries are lead-lead dioxide systems. The dilute sulfuric acid electrolyte is absorbed by separators and plates and thus immobilized. Should the battery be accidentally overcharged producing hydrogen and oxygen, special oneway valves allow the gases to escape thus avoiding excessive pressure build-up. Otherwise, the battery is completely sealed and is, therefore, maintenance-free, leak proof and usable in any position.



## Battery Construction

Component	Positive plate	Negative plate	Container	Cover	Safety valve	Terminal	Separator	Electrolyte
Raw material	Lead dioxide	Lead	ABS	ABS	Rubber	Copper	Fiberglass	Sulfuric acid

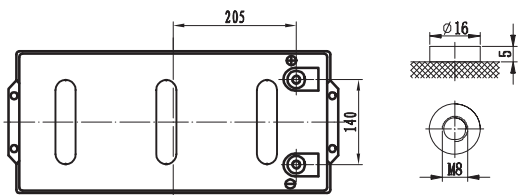
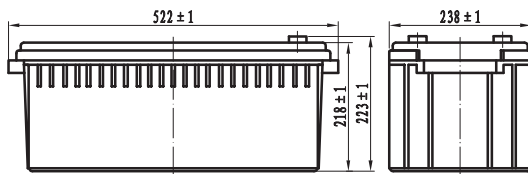
## General Features

- Micro millimeter SiO<sub>2</sub> and H<sub>2</sub>SO<sub>4</sub> gelled electrolyte technology for efficient gas recombination of up to 99% and freedom from electrolyte maintenance or water adding.
- Not restricted for air transport-complies with IATA/ICAO Special Provision A67.
- UL-recognized component.
- Can be mounted in any orientation.
- Computer designed lead, calcium tin alloy grid for high power density.
- Lead-carbon battery
- Long service life, float or cyclic applications.
- Maintenance-free operation.
- Low self discharge.
- Case and cover available in both standard and flame retardant ABS.

## Dimensions and Weight

Length(mm / inch)	522 / 20.55
Width(mm / inch)	238 / 9.37
Height(mm / inch)	218 / 8.58
Total Height(mm / inch)	223 / 8.78
Approx. Weight(Kg / lbs)	62.5 / 137.8

\* Weight deviation: ± 5%



## Battery Specification

Performance Characteristics	
Nominal Voltage	12V
Number of cell	6
Design Life	10 years
<b>Nominal Capacity 77°F(25°C)</b>	
10 hour rate (20.0A, 10.8V)	200Ah
5 hour rate (35.8A, 10.5V)	179Ah
3 hour rate (52.9A, 10.5V)	158.7Ah
1 hour rate (126A, 9.6V)	126Ah
<b>Internal Resistance</b>	
Fully Charged battery 77°F(25°C)	≤4.0 mOhms
<b>Self-Discharge</b>	
3% of capacity declined per month at 20°C(average)	
<b>Operating Temperature Range</b>	
Discharge	-20~60°C
Charge	-10~60°C
Storage	-20~60°C
Max. Discharge Current 77°F(25°C)	1000A(5s)
Short Circuit Current	3300A
<b>Charge Methods: Constant Voltage Charge 77°F(25°C)</b>	
Cycle use	2.40-2.45VPC
Maximum charging current	60.0A
Temperature compensation	-30mV/°C
Standby use	2.20-2.30VPC
Temperature compensation	-20mV/°C

## Discharge Constant Current (Amperes at 77°F25°C)

End Point Volts/Cell	Time							
	10min	15min	30min	45min	1h	3h	5h	10h
1.60V	--	350	215	156	126	57.0	38.0	20.7
1.65V	--	340	207	150	122	55.0	37.0	20.6
1.70V	--	327	201	146	118	54.5	36.4	20.5
1.75V	--	310	195	142	115	52.9	35.8	20.2
1.80V	--	261	182	137	112	50.5	35.2	20.0

## Discharge Constant Power (Watts at 77°F25°C)

End Point Volts/Cell	Time							
	10min	15min	30min	45min	1h	2h	5h	
1.60V	--	607	392	288	227	137	108	72.6
1.65V	--	586	380	280	222	135	106	71.6
1.70V	--	569	373	274	218	132	104	70.8
1.75V	--	561	363	269	214	128	100	69.9
1.80V	--	538	355	265	212	125	97.0	69.0

(Note)The above characteristics data are average values obtained within three charge/discharge cycles not the minimum values.All data shall be changed without notice,Vision reserves the right to explain and update the information contained hereinto.



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