



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

# CGT12-150VN

**12V 150Ah(10hr)**

## Overview

Gel battery shows some distinctive advantages over flooded battery or AGM battery, such as super thermal stability, high deep discharge capability, good recovery from deep discharge, even if the battery is left discharged for three days, it will recover to 100% of capacity. With the above-mentioned advantages, the gel battery has long service life, specially suitable for motive power applications, such as golf trailer, srubber, folklift, etc. The deep discharge cycles increased 50% as compared with the AGM battery.



## Battery Construction

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

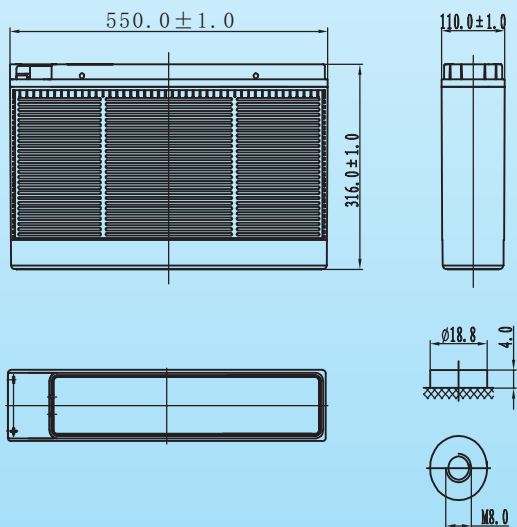
## General Features

- Nanometer SiO<sub>2</sub> and H<sub>2</sub>SO<sub>4</sub> gelled electrolyte technology for efficiency 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.
- Can be mounted in any orientation.
- Computer designed lead, calcium tin alloy grid for high power density.
- 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)	550 / 21.6
Width(mm / inch)	110 / 4.30
Height(mm / inch)	316 / 12.4
Total Height(mm / inch)	316 / 12.4
Approx. Weight(Kg / lbs)	50.0 / 110.3

\* Weight deviation: ± 3%



## Battery Specification

Performance Characteristics	
Nominal Voltage	12V
Number of cell	6
Design Life	12years
Nominal Capacity 77°F(25°C)	
10 hour rate (15.0A, 10.8V)	150Ah
5 hour rate (25.4A, 10.5V)	127Ah
1 hour rate (90A, 9.6V)	90Ah
Internal Resistance	
Fully Charged battery 77°F(25°C)	≤6.0 mOhms
Self-Discharge	
3% of capacity declined per month at 25°C (average)	
Operating Temperature Range	
Discharge	-20~60°C
Charge	-10~60°C
Storage	-20~60°C
Max. Discharge Current 77°F(25°C)	1050A(5s)
Charge Methods: Constant Voltage Charge 77°F(25°C)	
Cycle use	2.40-2.45VPC
Maximum charging current	45A
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	10min	15min	30min	45min	1h	3h	5h	10h
1.60V	288	253	145	137	90	38.1	27.2	15.4
1.65V	265	237	142	133	89	37.2	26.6	15.3
1.70V	242	221	138	129	88	36.3	26.0	15.2
1.75V	219	205	134	125	87	35.4	25.4	15.1
1.80V	195	183	130	120	85	35.0	25.0	15.0

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

End Point								
Volts/Cell	10min	15min	30min	45min	1h	3h	5h	10h
1.60V	468	406	273	230	169	71.1	53.6	29.6
1.65V	450	395	260	227	161	68.2	50.1	29.4
1.70V	432	382	248	223	153	65.3	47.5	29.2
1.75V	415	370	236	219	145	62.3	44.9	29.0
1.80V	396	358	218	215	138	60.3	42.3	28.8

(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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