

TC12-230-G

(12V230Ah/20hr)

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, sruubber, folklift, etc. The deep discharge cycles increased 50% as compared with the AGM battery.

Battery Construction

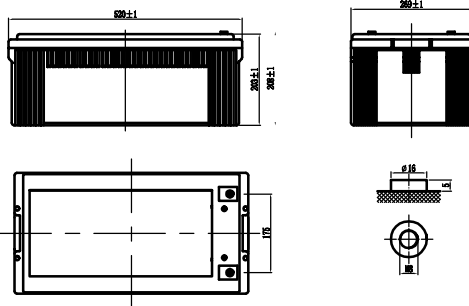
Component	Positive plate	Negative plate	Container	Cover	Safety valve	Terminal	Separator	Electrolyte
Raw material	Lead dioxide	Lead	ABS	ABS	Rubber	Copper	PVC	Gelled acid

General Feature

- Nanometer SiO₂ and H₂SO₄ 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.
- UL-recognized component.
- 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 restardant ABS.

Dimensions and Weight

Length(mm / inch)	520 / 20.5
Width(mm / inch)	269 / 10.6
Height(mm / inch)	203 / 8.0
Total Height(mm / inch)	208 / 8.2
Approx. Weight(Kg / lbs)	67 Kg



Performance Characteristics

Capacity 77°F(25°C)	20 hour rate (11.5A、10.5V)	230Ah
	10 hour rate (22A、10.5V)	220Ah
	5 hour rate (37.4A、10.5V)	187Ah
	1 hour rate (135A、9.6V)	135Ah
Internal Resistance	Full charged Battery77°F(25°C): 3.5mΩ	
Capacity affected by Temperature (20 hour rate)	104° F(40°C)	102%
	77° F(25°C)	100%
	32° F(10°C)	85%
	5° F(-15°C)	65%
Self-Discharge 68°F(20°C)	Capacity after 3 month storage	90%
	Capacity after 6 month storage	80%
	Capacity after 12month storage	60%
Max. discharge current77°F(25°C): 1200A(5S)		
Charge (Constant Voltage)	Float: 13.6~13.8 V/77° F/(25°C)	
	Cycle:14.5~14.9 V/77°F/(25°C) Max. Current: 55A	

Discharge Constant Current (Amperes at 77° F 25 °C)

End Point Volts/Cell	5min	10min	15min	30min	1h	3h	6h	10h	20h
1. 60V		450	360	225	142	57.0	34.5	22.2	11.8
1. 65V		424	340	216	139	56.0	34.0	22.2	11.8
1. 70V		400	319	207	135	55.0	33.5	22.1	11.7
1. 75V		374	298	195	130	53.8	33.0	22.0	11.6
1. 80V		344	274	182	125	52.5	32.4	21.8	11.2

Discharge Constant Power (watts at 77° F 25 °C)

End Point Volts/Cell	5min	10min	15min	30min	45min	1h	2h	3h	5h
1. 60V		771	623	410	293	271	148	105	75.8
1. 65V		733	603	395	288	266	145	104	75.2
1. 70V		695	583	379	282	261	142	102	74.6
1. 75V		654	564	364	275	255	139	101	74.1
1. 80V		621	530	349	270	250	135	99.7	73.4

