

TC12-140-FG

(12V140Ah/10hr)



GEL Series is GEL battery which is manufactured with AGM separator and colloidal Silicon. Gel battery are featured with low self-discharge, strong ability to recover from deep discharging, excellent cycle life and performance at cold ambient temperatures than conventional VRLA.

Battery Construction

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

General Feature

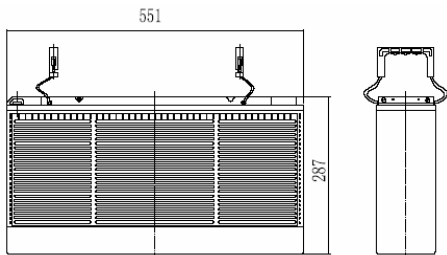
- Micro millimeter SiO₂ and H₂SO₄ technology for Efficient gas recombination of up to 99% and Freedom from electrolyte maintenance or water adding.
- Not restricted for air transport-complies with IATA/ICAO Special Provision A67.
- UL-recognized component.
- Can be mounted in any orientation.
- Computer designed lead, calcium tin alloy grid for high power density.
- Long service life, float or cyclic applications.
- Maintenance-free operation.
- Low self discharge.

Performance Characteristics

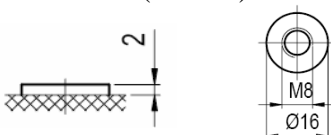
Capacity 77°F(25°C)	20 hour rate (7.4A、10.5V)	148Ah
	10 hour rate (14.0A、10.5V)	140Ah
	5 hour rate (25.9A、10.5V)	129.5Ah
	1 hour rate (94.0A、9.6V)	94Ah
Internal Resistance	Full charged Battery77°F(25°C): 5mΩ	
Capacity affected by Temperature (20 hour rate)	104° F(40°C)	102%
	77° F(25°C)	100%
	32° F(10°C)	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): 1000A(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: 35A	

SPECIFICATION

Nominal voltage	.....	12V
Number of cell	.....	6
Length(mm/inch)	.....	551/21.7
Width(mm/inch)	.....	110/4.33
Height(mm/inch)	.....	287/11.3
Total Height(mm/inch)	.....	287/11.3
Approx. Weight(kg/lbs)	.....	44/97.0



Terminal(M8-16)



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

End Point Volts/Cell	10min	15min	30min	45min	1h	3h	5h	10h	20h
1.60V	310	255	160	120	94.0	38.5	26.5	14.3	7.55
1.65V	293	237	155	117	92.2	38.1	26.3	14.2	7.50
1.70V	275	219	149	113	90.3	37.8	26.1	14.1	7.45
1.75V	265	201	143	110	88.5	37.5	25.9	14.0	7.40
1.80V	237	182	136	106	86.5	37.1	25.6	13.9	7.30

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

End Point Volts/Cell	5min	10min	15min	30min	45min	1h	2h	3h	5h
1.60V		488	413	273	210	171	100	75.2	49.9
1.65V		464	395	265	205	168	98.8	74.2	49.4
1.70V		441	377	258	200	165	97.5	73.3	49.0
1.75V		418	358	250	194	162	96.3	72.3	48.5
1.80V		395	340	242	189	159	95.0	71.3	48.0

(Note)The above characteristics data are average values obtained Within three charge/discharge cycles not the minimum values.

