

TC12-155-F

The rechargeable batteries are lead-lead dioxide systems. The dilute sulfuric acid electrolyte is absorbed by separators and thus immobilized.



Should the battery be accidentally overcharged producing hydrogen and oxygen, Special one-way 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

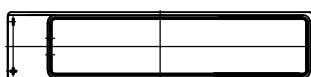
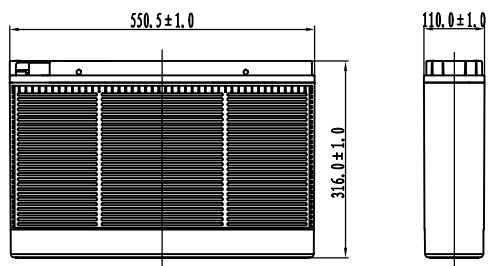
Component	Positive plate	Negative plate	Container	Cover	Safety valve	Terminal	Separator	Electrolyte
Raw material	Lead dioxide	Lead	ABS	ABS	Rubber	Copper	Fiberglass	Sulfuric acid

General Feature

- Absorbent Glass Mat(AGM) 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.

SPECIFICATION

Nominal voltage	.....	12V
Number of cell	.....	6
Length(mm/inch)	.....	551
Width(mm/inch)	.....	110
Height(mm/inch)	.....	316
Total Height(mm/inch)	.....	316
Approx. Weight(kg/lbs)	.....	47 Kg



Performance Characteristics

Nominal Voltage	12V
Number of cell	6
Design Life	12 years
Nominal Capacity 77°F(25°C)	
10 hour rate (15.0A, 10.8V)	150Ah
5 hour rate (26.4A, 10.5V)	132Ah
1 hour rate (93A, 9.6V)	93Ah
Internal Resistance	
Fully Charged battery 77°F(25°C)	5.8mOhms
Self-Discharge	
2% of capacity declined per month at 20°C(average)	
Operating Temperature Range	
Discharge	-20~60°C
Charge	-10~60°C
Storage	-20~60°C
Max. Discharge Current 77°F(25°C)	750A(5s)
Short Circuit Current	2600A
Charge Methods: Constant Voltage Charge 77°F(25°C)	
Cycle use	14.4-14.7V
Maximum charging current	45.0A
Temperature compensation	-20mV/°C
Standby use	13.5-13.8V
No charge current limit is required	
Temperature compensation	-30mV/°C

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

End point volts/cell	10min	15min	30min	1h	3h	5h	10h	20h
1.60V	315	258	150	93.0	39.0	28.5	15.8	8.40
1.65V	297	240	147	90.0	38.0	27.6	15.6	8.25
1.70V	279	228	144	87.0	37.0	27.0	15.3	8.10
1.75V	261	210	141	84.0	36.5	26.4	15.2	8.03
1.80V	243	192	135	79.5	35.0	25.5	15.0	7.88

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

End point volts/cell	10min	15min	30min	1h	3h	5h	10h	20h
1.60V	539	438	281	174	73.0	54.7	30.5	16.5
1.65V	513	434	268	166	69.3	51.7	28.8	15.6
1.70V	500	416	256	159	65.7	49.2	27.2	14.9
1.75V	476	390	248	153	62.5	48.2	26.2	14.4
1.80V	451	369	238	146	58.8	44.9	24.5	13.9

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

