



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 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

Performance Characteristics

- **Nominal Voltage** 6V
- **Ampere Hour Capacity**
 - 20 Hours rate (10A, 5.4V) 200Ah
 - 10 Hours rate (18A, 5.4V) 180Ah
 - 5 Hours rate (34A, 5.25V) 170Ah
- **Minutes of Discharge**
 - 25A to 5.25V 446 56A to 5.1V 171
 - 75A to 5.10V 116 85A to 4.8V 98
 - 100A to 4.8V 74
- **Cranking Amps**
 - 32°F/0°C 1080 0°F/-18°C 900
- **Internal Resistance**
 - Fully charged battery (77°F/25°C) 2mΩ
- **Self-Discharge (68°F/20°C)**
 - Capacity declined per month 3%
- **Opening temperature Range**
 - Discharge -20 ~ 60°C
 - Charge -10 ~ 50°C
 - Storage -20 ~ 60°C
- **Max. discharge current (77°F/25°C)** 1000A(5S)
- **Short Circuit Current** 3000A
- **Charge Methods: constant voltage charge (77°F/25°C)**
 - Cycle use 7.20 ~ 7.35V
 - Max. Current 45A
 - Standby use 6.80 ~ 6.90V

General Features

- **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.**
- **A recognized component of CE and UL**
- **Computer designed lead, calcium tin alloy grid for high power density.**
- **Long service life, float or cyclic applications.**
- **Maintenance-free operation.**
- **Low self discharge**
- **Design Life 10 years**

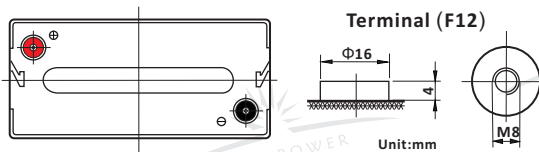
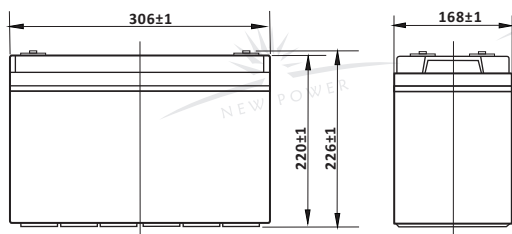
Constant Current Discharge (Amperes at 77°F/25°C)

V/cell	10min	15min	30min	45min	1h	3h	5h	10h
1.60	405	335	220	159	127	52.5	35.1	18.5
1.65	389	323	211	155	125	51.8	34.8	18.4
1.70	372	310	202	151	123	51.1	34.4	18.3
1.75	353	296	193	147	121	50.3	34.0	18.2
1.80	332	280	183	143	118	49.5	33.5	18.0

Constant Power Discharge (Watts at 77°F/25°C)

V/cell	10min	15min	30min	45min	1h	2h	3h	5h
1.60	695	590	377	277	236	137	99.5	62.2
1.65	670	570	364	270	231	135	98.6	61.6
1.70	643	548	351	262	227	133	97.7	60.9
1.75	614	524	336	254	221	132	96.7	60.3
1.80	583	498	322	245	215	129	95.8	59.5

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



Dimensions and Weight

Type	Length	Width	Height	Total Height	Approx. Weight
SI Units	306mm	168mm	220mm	226mm	28.2Kg
English Units	12.0inch	6.61inch	8.66inch	8.90inch	62.2lbs

