



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

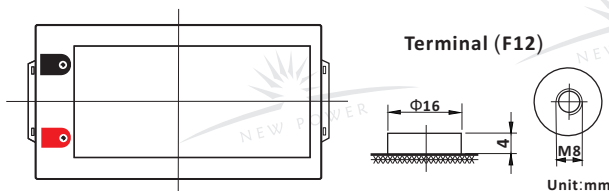
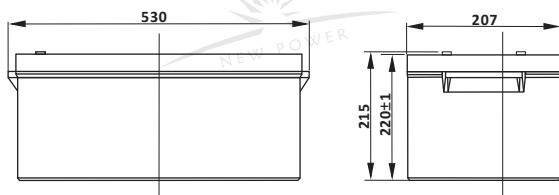
COMPONENT	POSITIVE PLATE	NEGATIVE PLATE	CONTAINER	COVER	SAFETY VALVE	TERMINAL	SEPARATOR	ELECTROLYTE
Raw material	Lead dioxide	Lead	ABS	ABS	Rubber	Copper/Plug	Fiberglass	Sulfuric acid

### Performance Characteristics

- **Nominal Voltage** ..... 12V
- **Number of Cell** ..... 6
- **Nominal Capacity (77°F / 25°C)**
  - 15 min Wattage @ 1.67V ..... 560W/cell
  - 10 Hour rate (17.0A, 10.8V)..... 170Ah
- **Internal Resistance**
  - Fully charged battery (68°F / 20°C) ..... 2.5mΩ
- **Self-Discharge 68°F (20°C)**
  - Capacity declined per month ..... 3%
- **Max. discharge current 68°F / 20°C**..... 1100A(5S)
- **Short Circuit Current**..... 4500A
- **Charge Methods: constant voltage charge 68°F / 20°C**
  - Cycle use ..... 14.4 ~ 14.7V
  - Max. Current ..... 51.0A
  - Standby use ..... 13.6 ~ 13.8V

### 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 25°C)

V/cell	10min	15min	30min	45min	50min	55min	1h	2h	3h
1.60	403	330	215	160	146	136	125	70.5	52.3
1.65	385	316	205	156	143	133	122	68.6	51.0
1.70	360	305	198	154	140	130	118	66.3	49.3
1.75	340	285	190	148	135	125	115	64.6	48.0
1.80	320	270	180	143	128	120	110	61.8	45.6

### Constant Power Discharge (Watts per cell at 25°C)

V/cell	10min	15min	30min	45min	50min	55min	1h	2h	3h
1.60	730	595	390	286	260	243	225	124	96.8
1.65	710	570	380	280	254	236	220	121	94.6
1.67	698	560	372	277	250	233	218	119	93.6
1.70	685	550	365	270	246	228	215	117	92.4
1.75	665	530	355	260	240	222	208	114	89.3
1.80	628	508	340	252	232	215	201	110	88.5

### Dimensions and Weight

Type	Length	Width	Height	Total Height	Approx. Weight
SI Units	530mm	207mm	215mm	220mm	55.0Kg
English Units	20.8inch	8.15inch	8.46inch	8.66inch	121lbs

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

