



Applications

- Uninterruptible Power Supply (UPS)
- Electric Power System (EPS)
- Emergency Light
- Golf cart, Electric vehicle
- Railway signal system
- Marine and power stations
- Aircraft signal system
- Alarm and security system
- Electronic apparatus and equipment
- Electric powered bicycle & Wheelchair
- Communication power supply
- Solar powered systems

Battery Construction

COMPONENT	POSITIVE PLATE	NEGATIVE PLATE	CONTAINER	COVER	SAFETY VALVE	TERMINAL	SEPARATOR	ELECTROLYTE
Raw material	Lead dioxide	Lead	ABS	ABS	Rubber	Copper	PVC/SiO ₂	Gelled Acid

Performance Characteristics

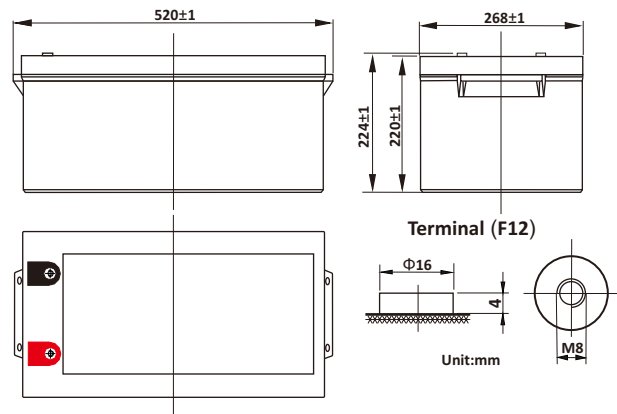
- **Nominal Voltage** 12V
- **Number of Cell** 6
- **Nominal Capacity (77°F /25°C)**
 - 100 Hour rate (2.65A, 11.1V) 265Ah
 - 10 Hour rate (22.5A, 10.8V) 225Ah
 - 5 Hour rate (38.4A, 10.5V) 192Ah
 - 1 Hour rate (130A, 9.6V) 130Ah
- **Internal Resistance**
 - Fully charged battery (77°F /25°C) 3.8mΩ
- **Capacity affected by temperature (10 hour rate)**
 - 104°F (40°C) 102% 32°F (10°C) 85%
 - 77°F (25°C) 100% 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 12 month storage 60%
- **Max. discharge current 77°F /25°C** 1400A(5S)
- **Charge Methods: constant voltage charge 77°F /25°C**
 - Cycle use 14.28 ~ 14.52V
 - Max. Current 45A
 - Standby use 13.38 ~ 13.62V

General Features

- **Micro millimeter SiO₂ and H₂SO₄ technology for efficient gas recombination of up to 99%.**
- **Maintenance free and no water adding required.**
- **Not restricted for air transportation as Nollon Battery complies with IATA/ICAO special provision A67.**
- **Raw material used in Nollon battery is of CE and UL (MH49077) standards.**
- **Computer designed lead-calcium tin plate grid alloy provides high power density and less gassing.**
- **ABS case (optional for Fire Retardant case).**
- **Strong ability to recover from deep discharging and has 50% more deep cycle life.**
- **Spill/leak proof and vibration resistant.**
- **Long service life for float or cyclic applications.**
- **Design life 12 years**

Dimensions and Weight

Type	Length	Width	Height	Total Height	Approx. Weight
SI Units	520mm	268mm	220mm	224mm	74kg
English Units	20.5inch	10.6inch	8.66inch	8.82inch	163lbs



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

V/cell	10min	15min	30min	1h	3h	5h	10h	100h
1.60	403	310	217	130	59.49	41.49	23.59	2.86
1.65	376	294	207	125	58.09	40.81	23.24	2.84
1.70	358	265	197	120	56.25	39.88	23.00	2.81
1.75	337	262	187	113	53.24	38.40	22.76	2.78
1.80	315	242	176	109	51.21	36.70	22.50	2.76
1.85	292	232	167	104	48.81	34.25	21.84	2.65

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

V/cell	10min	15min	30min	1h	3h	5h	10h	100h
1.60	684	525	376	235	111	78.37	45.95	5.64
1.65	660	511	363	229	109	74.58	45.50	5.62
1.70	636	490	352	221	107	73.19	45.05	5.59
1.75	615	477	342	215	104	70.80	44.60	5.57
1.80	591	458	329	207	100	69.09	44.41	5.54
1.85	554	440	318	200	95.2	67.03	43.96	5.38

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

