



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

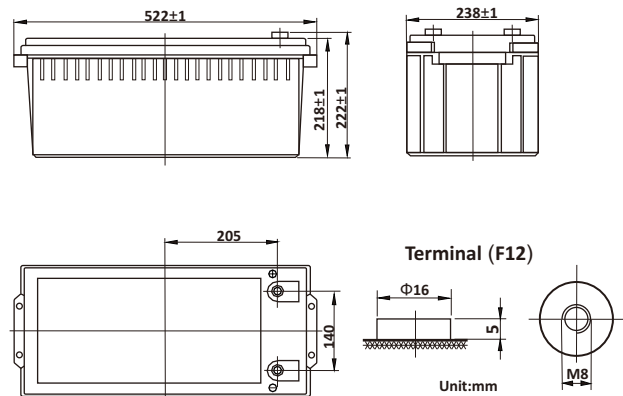
- **Nominal Voltage** 12V
- **Number of Cell** 6
- **Nominal Capacity (77°F /25°C)**
 - 100 Hour rate (2.07A, 10.8V) 207Ah
 - 20 Hour rate (8.5A,10.8V) 170Ah
 - 10 Hour rate (15.6A,10.8V) 156Ah
 - 5 Hour rate (27.6A, 10.5V) 138Ah
- **Internal Resistance**
 - Fully charged battery (77°F /25°C) 6.5mΩ
- **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** 1000A(5S)
- **Charge Methods: constant voltage charge 77°F /25°C**
 - Cycle use 14.28 ~ 14.52V
 - Max. Current 34A
 - 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	522mm	238mm	218mm	222mm	57Kg
English Units	20.6inch	9.37inch	8.85inch	8.74inch	125.6lbs



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

V/cell	10min	15min	30min	1h	3h	5h	10h	20h	100h
1.60	361	293	171	101	41.5	29.1	15.86	8.70	2.14
1.65	340	278	164	98.8	40.8	28.6	15.80	8.65	2.12
1.70	318	263	159	96.7	40.0	28.1	15.73	8.55	2.11
1.75	297	249	153	94.6	39.5	27.6	15.70	8.55	2.09
1.80	274	235	150	92.5	38.8	26.7	15.60	8.50	2.07

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

V/cell	10min	15min	30min	45min	1h	2h	3h	5h	100h
1.60	633	521	338	230	209	116	81.1	55.6	4.23
1.65	602	502	328	225	206	114	80.2	55.3	4.19
1.70	570	483	318	219	203	112	79.2	54.9	4.18
1.75	540	464	308	214	197	110	78.3	54.6	4.16
1.80	506	442	297	210	191	108	73.9	54.0	4.13

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

