



Applications

- Uninterruptible Power Supply (UPS)
- Electric Power System (EPS)
- Emergency Light
- Emergency backup power supply
- Railway signal system
- Marine and power stations
- Aircraft signal system
- Alarm and security system
- Electronic apparatus and equipment
- DC power supply
- Communication power supply
- Network communication

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

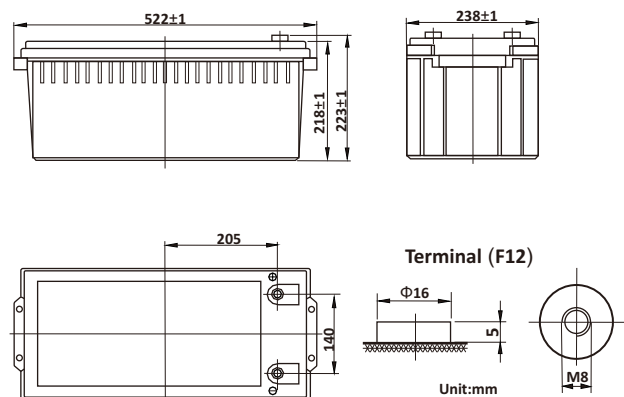
- **Nominal Voltage** 12V
- **Number of Cell** 6
- **Nominal Capacity (77°F /25°C)**
 - 20 Hour rate (11.5A, 10.8V) 230Ah
 - 10 Hour rate (22.5A, 10.8V) 225Ah
 - 5 Hour rate (38.2A, 10.5V) 191Ah
 - 1 Hour rate (137A, 9.6V) 137Ah
- **Internal Resistance**
 - Fully charged battery (77°F /25°C) 3.5mΩ
- **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** 1250A(5S)
- **Charge Methods: constant voltage charge 77°F /25°C**
 - Cycle use 14.5 ~ 14.9V
 - Max. Current 56A
 - Standby use 13.6 ~ 13.8V

General Features

- **Oxygen recombination technology means the battery is 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).**
- **Sealed valve regulated thus allowing installation horizontally or vertically.**
- **Spill/leak proof and vibration resistant.**
- **Long service life for float or cyclic applications.**
- **Design life 10 years**

Dimensions and Weight

| Type | Length | Width | Height | Total Height | Approx. Weight |
|----------------------|----------|----------|----------|--------------|----------------|
| SI Units | 522mm | 238mm | 218mm | 223mm | 63Kg |
| English Units | 20.5inch | 9.37inch | 8.58inch | 8.78inch | 138.9lbs |



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

| V/cell | 10min | 15min | 30min | 1h | 3h | 5h | 10h | 20h |
|--------|-------|-------|-------|-----|------|------|------|-------|
| 1.60 | 453 | 362 | 225 | 137 | 58.2 | 35.2 | 22.8 | 11.90 |
| 1.65 | 427 | 342 | 216 | 135 | 57.3 | 34.7 | 22.7 | 11.65 |
| 1.70 | 403 | 320 | 207 | 131 | 56.2 | 34.3 | 22.6 | 11.60 |
| 1.75 | 377 | 301 | 195 | 127 | 55.0 | 33.8 | 22.5 | 11.50 |
| 1.80 | 349 | 281 | 182 | 119 | 53.6 | 33.2 | 22.3 | 11.40 |

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

| V/cell | 10min | 15min | 30min | 45min | 1h | 2h | 3h | 5h |
|--------|-------|-------|-------|-------|-----|-----|-----|------|
| 1.60 | 788 | 637 | 419 | 299 | 277 | 152 | 107 | 77.5 |
| 1.65 | 750 | 617 | 403 | 295 | 231 | 148 | 106 | 76.9 |
| 1.70 | 711 | 596 | 388 | 288 | 267 | 145 | 104 | 76.3 |
| 1.75 | 669 | 577 | 372 | 281 | 261 | 142 | 103 | 75.8 |
| 1.80 | 635 | 542 | 357 | 276 | 256 | 138 | 102 | 75.1 |

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

