



**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/Plug	Fiberglass	Sulfuric acid

**Performance Characteristics**

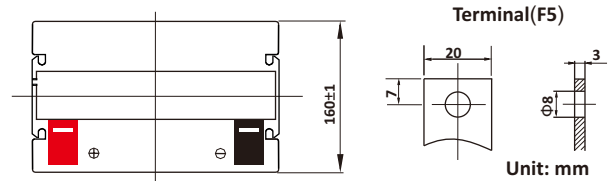
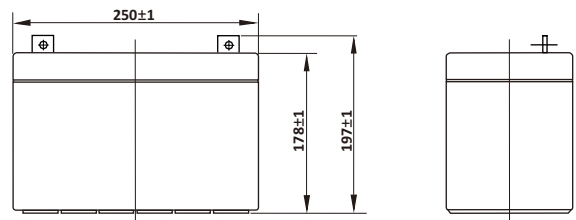
- **Nominal Voltage** ..... 12V
- **Number of Cell** ..... 6
- **Nominal Capacity (77°F /25°C)**
  - 20 Hour rate (2.7A, 10.8V) ..... 54Ah
  - 10 Hour rate (5A,10.8V) ..... 50Ah
  - 5 Hour rate (8.8A,10.5V) ..... 44Ah
  - 1 Hour rate (31A, 9.6V) ..... 31Ah
- **Internal Resistance**
  - Fully charged battery (77°F /25°C) ..... 9mΩ
- **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** ..... 650A(5S)
- **Charge Methods: constant voltage charge 77°F /25°C**
  - Cycle use ..... 14.4 ~ 14.7V
  - Max. Current ..... 12.5A
  - Standby use ..... 13.6 ~ 13.8V

**General Features**

- **Micro millimeter SiO<sub>2</sub> and H<sub>2</sub>SO<sub>4</sub> 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).**
- **Low self-discharge and good recovery from deep discharge.**
- **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
<b>SI Units</b>	250mm	160mm	178mm	197mm	15.8Kg
<b>English Units</b>	9.84inch	6.30inch	7.01inch	7.76inch	34.8lbs



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

V/cell	5min	10min	15min	30min	1h	3h	5h	10h	20h
1.60	160	115	87.5	56.0	31.0	13.7	9.25	5.25	2.85
1.65	151	109	83.5	54.1	30.1	13.4	9.15	5.20	2.85
1.70	142	103	79.5	52.2	29.2	13.0	9.00	5.15	2.80
1.75	133	96.5	75.0	50.3	28.2	12.6	8.80	5.10	2.75
1.80	123	90.0	70.0	48.2	27.1	12.1	8.50	5.00	2.70

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

V/cell	5min	10min	15min	30min	45min	1h	2h	3h	5h
1.60	290	217	176	101	77.6	62.7	37.4	26.5	17.1
1.65	273	205	161	99.2	76.4	61.2	36.6	25.9	16.9
1.70	256	194	154	97.4	74.9	59.9	35.9	25.4	16.6
1.75	238	182	147	95.6	73.3	58.5	34.9	24.8	16.4
1.80	227	169	140	94.6	71.3	57.0	34.0	24.3	16.3

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

