



Applications

- Telecommunication central station (wired or cellular)
- Power system communication, military communication, etc.
- Network communication including: data transmission, television signal transmission, etc.
- Uninterruptible Power Supply (UPS for Telecom)
- Emergency Power Supply (EPS)

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

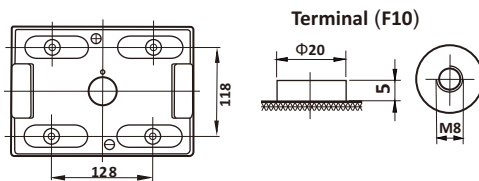
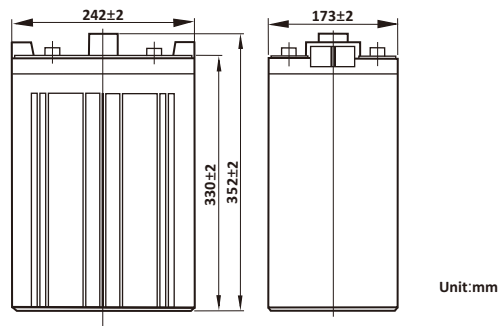
- **Nominal Voltage** 2V
- **Number of Cell** 1
- **Nominal Capacity (77°F /25°C)**
 - 10 Hour rate (50A, 1.8V) 500Ah
 - 5 Hour rate (88A, 1.75V) 440Ah
 - 3 Hour rate (126A, 1.70V) 378Ah
 - 1 Hour rate (300A, 1.60V) 300Ah
- **Internal Resistance**
Fully charged battery (77°F /25°C) 0.8mΩ
- **Capacity affected by temperature (20 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** 2000A(5S)
- **Charge Methods: constant voltage charge 77°F /25°C**
 - Cycle use 2.35 ~ 2.45V
 - Max. Current 100A
 - Standby use 2.25 ~ 2.30V

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 15 years**

Dimensions and Weight

Type	Length	Width	Height	Total Height	Approx. Weight
SI Units	242mm	173mm	330mm	365mm	32Kg
English Units	9.53inch	6.81inch	13.0inch	14.4inch	70.5lbs



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

V/cell	10min	15min	30min	45min	1h	3h	5h	10h
1.60	937	711	500	383	300	134	94.5	53.8
1.65	888	677	480	368	290	130	92.5	53.1
1.70	837	642	460	352	278	126	90.5	52.2
1.75	785	606	432	335	266	122	88.0	51.2
1.80	733	570	405	317	253	115	85.0	50.0

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

V/cell	10min	15min	30min	45min	1h	2h	3h	5h
1.60	1546	1156	930	771	625	378	270	167
1.65	1457	1094	883	736	599	361	260	164
1.70	1366	1030	836	699	572	345	247	161
1.75	1276	967	787	661	543	330	236	157
1.80	1187	903	738	623	514	304	217	149

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

