



## BATTERY TYPE : SIN12-20 12VOLT 20AH

### ---CHARACTERISTICS---

#### Specifications

Nominal Voltage		12V
Rated Capacity(20 hour rate)		20AH
Dimension	Total Height (with terminals)	167mm(6.57inches)
	Height	167mm(6.57inches)
	Length	181mm(7.13inches)
	Width	76mm(2.99inches)
Weight		approx.6.8kg

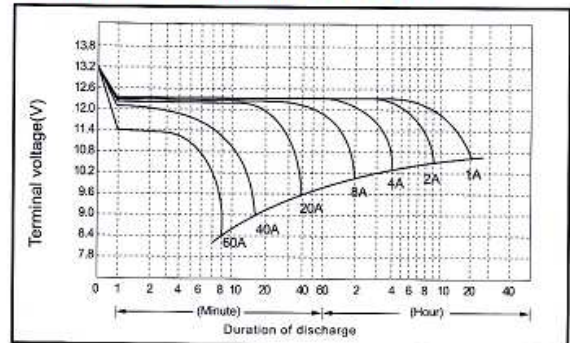
#### Characteristics

Capacity 77°F(25°C)	20 hour rate(1A)	20AH
	10 hour rate(1.86A)	18.6AH
	5 hour rate(3.4A)	17AH
	1 hour rate(12A)	12AH
	15 min rate(37A)	9.25AH
Internal Resistance	Full charged Battery 77°F(25°C)	11mΩ
Capacity affected by Temperature (20 hour rate)	104°F(40°C)	102%
	77°F(25°C)	100%
	32°F(0°C)	85%
	5°F(-15°C)	65%
Self-Discharge 77°F(25°C)	Capacity after 3 month storage	91%
	Capacity after 6 month storage	82%
	Capacity after 12 month storage	64%
Max. Discharge Current 77°F(25°C)	100A	
Terminal	Standard	L1
	Optional	C1
Charging (Constant Voltage)	Cycle	14.5~14.9V/77°F(25°C) <5A
	Float	13.6V~13.8V/77°F(25°C)

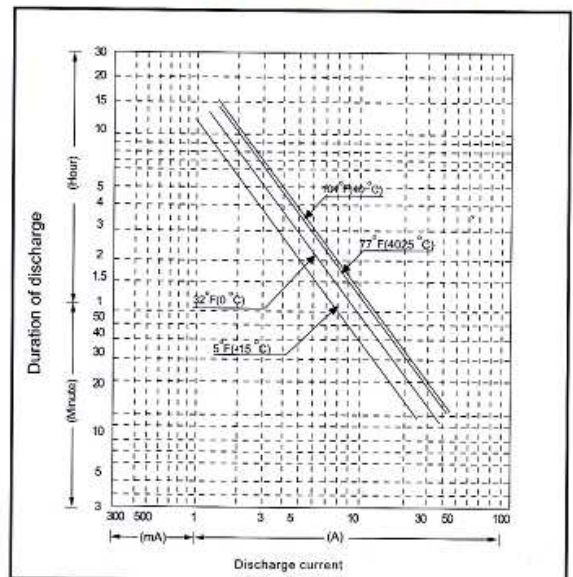
#### Constant wattage discharge (Watts/battery @ 25°C)

EV/CELL	5min	10min	30min	1H	3H	5H	8H	10H	20H
1.85V	461.5	363.5	192.0	123.1	56.5	37.1	25.3	21.0	10.9
1.80V	566.4	414.8	211.1	128.2	56.7	37.3	25.5	21.2	11.0
1.75V	588.7	425.5	220.8	134.5	60.7	38.5	26.2	21.9	11.2
1.70V	641.7	444.0	226.3	140.0	60.8	39.8	26.9	22.0	11.2
1.60V	703.2	478.7	234.4	140.7	61.1	39.8	26.9	22.6	11.2

#### Discharge characteristics 77°F(25°C)



#### Duration of discharge vs. Discharge current



**Note** The above data are average values, and can be obtained within 3 charge/discharge cycles. These are not minimum values.