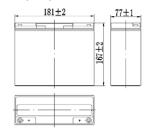


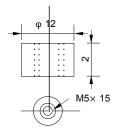
#### **Specifications**

Nominal Voltage	12V			
Number of cell	6 cells			
Rated capacity(15min.rat	80 Watts/cell			
Dimensions	Length	181±2mm(7.13inch)		
	Width	77±1mm(3.03inch)		
	Height	167±2mm(6.57inch)		
	Total Height	167±2mm(6.57inch)		
Approx. Weight	5.9kg(12.98lbs)±3%			

#### **Outer dimensions (mm)**



## **Terminal Type (mm)**



#### **Characteristics**

Capacity(2	0H R,25°C)	22Ah				
Capacity(15m	nin.rate,25°C)	80 Watts/cell				
Termin	al type	T12				
	esistance ged,25°C)	Approx.12m Ω				
	40°C	102%				
Capacity affected by	25°C	100%				
temperature (10HR)	0°C	85%				
(IOI IIV)	-15°C	65%				
	3 months	Remaining Capacity:91 %				
Self-discharge (25°C)	6 months	Remaining Capacity:82%				
(== =)	12 months	Remaining Capacity:65%				
Nominal operati	ing temperature	25°C ±3°C(77°F ±5°F)				
Operating	Discharge	-15°C-50°C(5°F-122°F)				
temperature	Charge	-10°C-50°C(14°F-122°F)				
range	Storage	-20°C-50°C(-4°F-122°F)				
Float charging	voltage(25°C)	13.50 to 13.80V Temperature compensation: -18mV/ °C				
Cyclic charging	y voltage(25°C)	14.50 to 15.00V Temperature compensation: -30mV/°C				
Maximum cha	arging current	5.4A				
Maximum disc	charge current	270A(5 sec.)				
Designed floa	ting life(20°C)	5years				

#### Construction

Component	Positive plate	e Negative plate Cont		Cover	Separator	Electrolyte	Safety valve	Terminal
Raw material	Lead dioxide	Lead	ABS	ABS	AGM	Sulfuric acid	Rubber	Copper

## Constant Current Discharge Characteristics Unit:A(25°C,77°F)

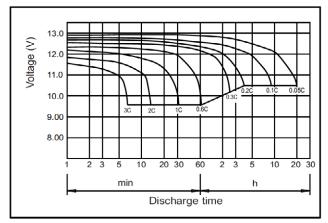
F.V/Time	5min	10min	15min	20min	30min	45min	60min	2h	3h	4h	5h
1.60V/cell	85.9	52.9	41.6	32.9	22.3	16.5	13.5	7.64	5.43	4.37	3.75
1.67V/cell	82.6	50.9	40.0	31.6	21.4	15.9	13.0	7.35	5.22	4.20	3.61
1.70V/cell	78.9	48.6	38.6	30.4	20.7	15.4	12.7	7.28	5.18	4.17	3.58
1.75V/cell	76.8	47.3	37.6	29.7	20.4	15.1	12.5	7.24	5.16	4.15	3.56
1.80V/cell	73.5	45.3	36.3	28.7	19.9	14.7	12.2	7.13	5.12	4.12	3.54

#### Constant Power Discharge Characteristics Unit:W(25°C,77°F)

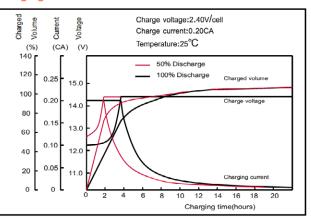
F.V/Time	5min	10min	15min	20min	30min	45min	60min	2h	3h	4h	5h
1.60V/cell	167	104	84.0	65.7	44.5	32.9	27.0	15.3	11.0	8.79	7.55
1.67V/cell	159	98.7	80.1	62.6	42.4	31.4	25.7	14.6	10.5	8.37	7.19
1.70V/cell	151	94.3	76.4	60.1	41.1	30.4	25.1	14.5	10.4	8.34	7.17
1.75V/cell	148	91.8	74.4	58.9	40.3	29.8	24.7	14.4	10.4	8.28	7.12
1.80V/cell	141	87.9	71.8	56.8	39.3	29.1	24.2	14.2	10.3	8.03	6.90

Note: The above characteristics data can be obtained within three charge or discharge cycles.

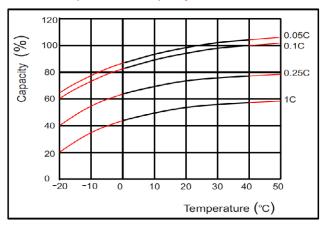
### Discharge characteristics(25°C)



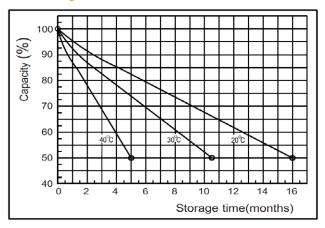
#### **Charging characteristics**



#### **Effect of Temperature on Capacity**



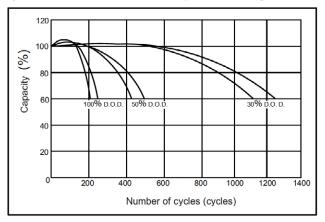
#### Self-discharge characteristics



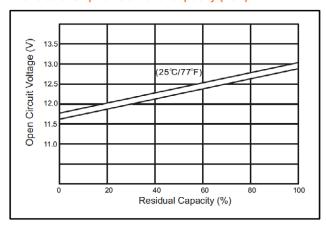
# Temperature effects on float life

# 

# Cycle service life in relation to depth of discharge



#### The relationship for OCV and Capacity (25't)



## The relationship for Charging voltage and Temperature

