



# SEALED LEAD ACID CALCIUM BATTERY DATA SHEET

## MP 18.0A - 12V



### Applications:

- UPS power systems
- Portable Electronic Instruments
- Emergency Lighting Systems
- Mining Search Light Products
- Portable Camping Equipments
- Remote Scientific Instruments

### Electrical Specification

Capacity	Load	Duration	Final Voltage
<b>Rated Capacity @ 25 °C (77 °F)</b>			
<b>18.00Ah</b>	0.90A	20 Hours	10.50V
<b>16.74Ah</b>	1.67A	10 Hours	10.20V
<b>15.30Ah</b>	3.06A	5 Hours	10.02V
<b>10.80Ah</b>	10.80A	1 Hour	9.60V
<b>9.00Ah</b>	18.00A	0.5 Hour	9.00V

### Physical Specification

Length	Width	Height	Overall Height
7.13 in	2.99 in	6.57 in	6.57 in
181 mm	76 mm	167 mm	167 mm
Internal Resistance@25°C Fully Charged			12 mΩ

**Weight:** 6.30 Kg.  
**Case Material:** ABS Resin

### Capacity ~ Temperature

104°F(40°C)	77°F(25°C)	32°F(0°C)	5°F(-15°C)
102%	100%	85%	65%

### Self Discharge

4 Mo. 20°C	8 Mo. 20°C	4 Mo. 30°C	8 Mo. 30°C
14%	26%	24%	40%

### Charging - Constant Voltage

@25°C (77°F)	Standby Usage:	Cyclic Usage:
<b>Voltage</b>	13.6 ~ 13.8V	14.4 ~ 14.8V
<b>Current</b>	1.80~2.25A	1.80~2.25A
<b>Current (max.)</b>	N/A	3.60A

### Life Expectancy

Standby Usage:	@25 °C	3 ~ 4 Years
<b>Cyclic Usage:</b>	100% Discharged	200 ~ 250 Cycles
	50% Discharged	500 ~ 600 Cycles
	30% Discharged	1,100 ~ 1,200 Cycles