

## GENERAL FEATURES

- Environmentally friendly
- Wide operating temperature range
- Nano gel electrolyte and long Floating service Life
- Can be used at vertical or horizontal orientation
- High Power Density
- Low self discharge

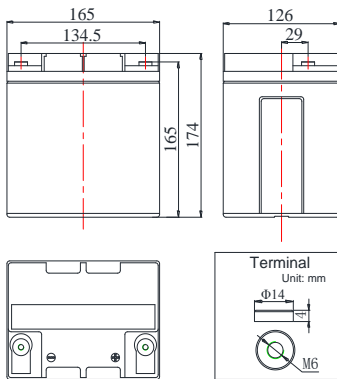
## APPLICATIONS

- Telecom Control Equipments
- UPS systems
- Communication Equipments
- Medical Equipments
- Emergency Power Systems
- Security Systems
- Cable TV
- Railway System



## DIMENSIONS & WEIGHT

Length(mm)	165±1
Width(mm)	126±1
Height(mm)	174±1
Total Height(mm)	174±1
Weight(kg)	7.8±3%



## COMPLIED STANDARDS

IEC 60896-21/22	JIS C8704
YD/T1360	BS6290 part4
GB/T 19638	UL 1989

## TECHNICAL SPECIFICATIONS



<b>Nominal Voltage</b>		<b>12V(6 cells per unit)</b>
<b>Design Floating Life @25°C</b>		<b>12 Years</b>
<b>Nominal Capacity @25°C(10 hour rate@2.40A,10.80V)</b>		<b>24Ah</b>
<b>Capacity @25°C</b>	<b>20 hour rate (1.28A,10.5V)</b>	<b>25.6Ah</b>
	<b>5 hour rate (4.20A,10.5V)</b>	<b>21.0Ah</b>
	<b>1 hour rate (15.3A,9.6V)</b>	<b>15.3Ah</b>
<b>Internal Resistance</b>	<b>Full Charged Battery @25°C</b>	<b>≤14.5mΩ</b>
<b>Ambient Temperature</b>	<b>Discharge</b>	<b>-30°C ~60°C</b>
	<b>Charge</b>	<b>-30°C ~60°C</b>
	<b>Storage</b>	<b>-30°C ~60°C</b>
<b>Max.Discharge Current@25°C</b>		<b>240A(5s)</b>
<b>Capacity affected by Temperature (10 hr Capacity )</b>	<b>40°C</b>	<b>108%</b>
	<b>25°C</b>	<b>100%</b>
	<b>0°C</b>	<b>90%</b>
	<b>-15°C</b>	<b>70%</b>
<b>Self-Discharge@25°C per Month</b>		<b>3%</b>
<b>Charge (Constant Voltage) @25°C</b>	<b>Standby Use</b>	<b>Initial Charging Current Less than 6.0A Voltage 13.6-13.8V</b>
	<b>Cycle Use</b>	<b>Initial Charging Current Less than 6.0A Voltage 14.4-14.9V</b>

## BATTERY DISCHARGE TABEL

### Discharge Constant Current per Cell (Amperes at 25°C)

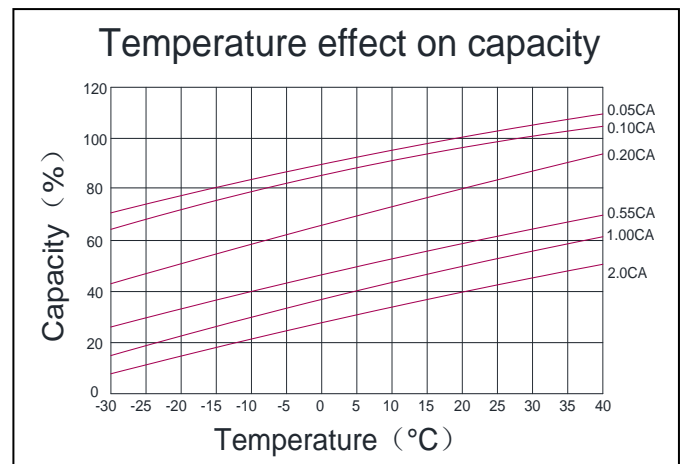
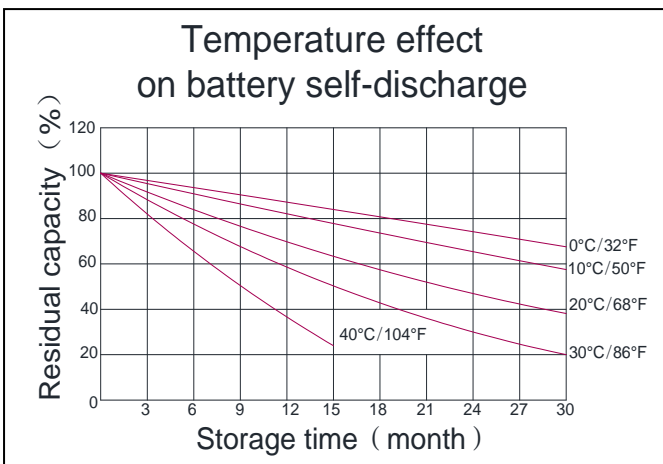
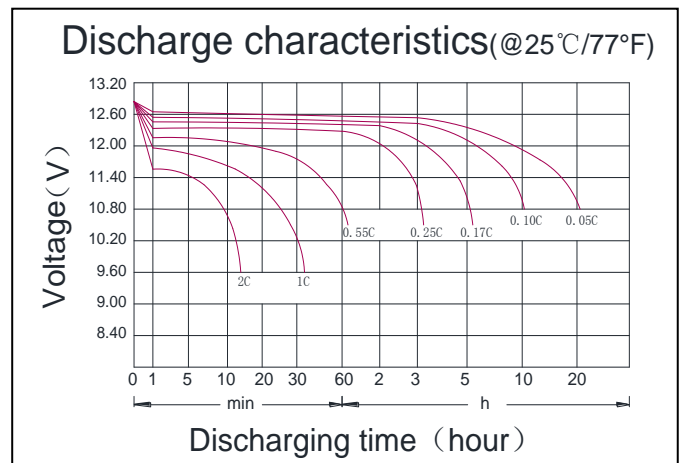
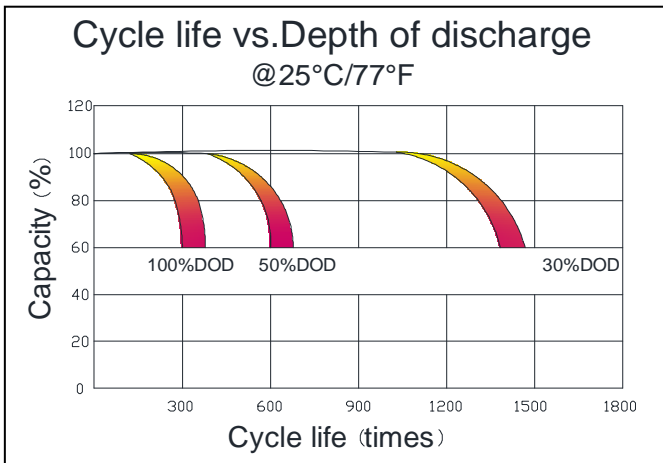
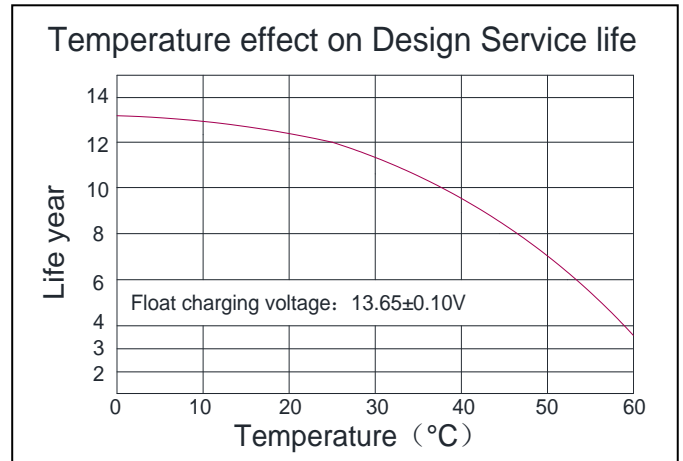
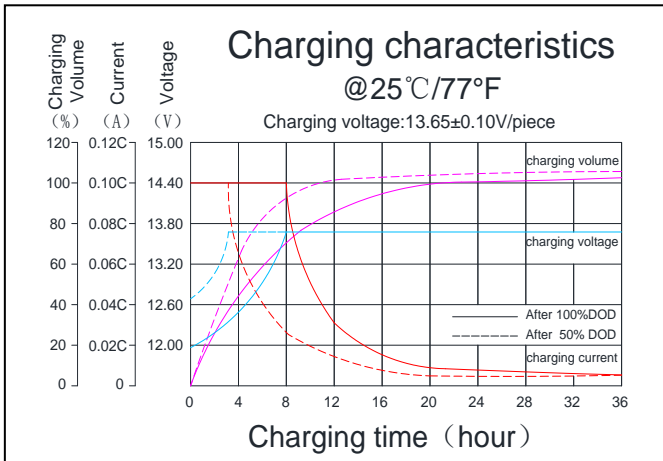
F.V/Time	15min	30min	45min	1h	2h	3h	5h	6h	8h	10h	20h
1.60V	43.3	25.5	19.3	15.3	9.0	6.6	4.5	3.9	3.0	2.5	1.33
1.67V	40.9	24.2	18.6	14.9	8.7	6.4	4.4	3.8	3.0	2.5	1.32
1.70V	38.4	23.5	17.9	14.3	8.5	6.2	4.3	3.7	3.0	2.4	1.30
1.75V	36.0	22.4	17.1	13.7	8.3	6.1	4.2	3.7	2.9	2.4	1.28
1.80V	33.8	21.6	16.5	13.2	7.9	5.9	4.1	3.6	2.9	2.4	1.27

### Discharge Constant Power per Cell (Watts at 25°C)

F.V/Time	15min	30min	45min	1h	2h	3h	5h	6h	8h	10h	20h
1.60V	82.8	50.7	36.7	29.4	17.1	12.6	8.6	7.5	6.0	4.9	2.6
1.67V	79.2	47.5	35.4	28.6	16.6	12.3	8.5	7.4	5.9	4.9	2.6
1.70V	73.8	46.5	34.3	27.6	16.2	12.0	8.4	7.3	5.8	4.8	2.6
1.75V	69.3	44.2	33.0	26.6	15.8	11.8	8.2	7.2	5.8	4.8	2.6
1.80V	65.0	42.4	31.8	25.7	15.3	11.4	8.1	7.1	5.7	4.8	2.5

**Note** The above data are average values, and can be obtained within 3 charge/discharge cycles. These are not minimum values. Cell and battery designs/specifications are subject to modification without notice. Contact **MCA** for the latest information.

## PERFORMANCE CHARACTERISTICS



## BATTERY CONSTRUCTION

Component	Positive plate	Negative plate	Container & Cover	Safety valve	Terminal	Separator	Electrolyte	Pillar seal
Features	Thick high Sn low Ca grid with special paste	Balanced Pb-Ca grid for improved recombination efficiency	ABS (UL94-V0 optional)	Flame Si-Rubbeand aging resistancer	Female Copper Insert M6(torque:3~4N.m)	Advanced AGM separator for high pressure cell design	Dilute high purity sulphuric acid with fumed Silica gel	Two layers epoxy resin seal