

## GENERAL FEATURES

- Optimized plate achieve low IR
- 30% increased power output at 15 min
- Deep Discharge Recovery
- High Power Density
- Wide operating temperature

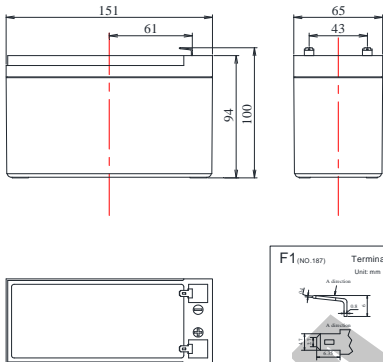
## APPLICATIONS

- UPS & EPS
- Emergency lighting Systems
- Medical Equipment
- The office computer
- Cable TV Systems
- Alarm Systems



## DIMENSIONS & WEIGHT

Length(mm)	151±1
Width(mm)	65±1
Height(mm)	94±1
Total Height(mm)	100±1
Weight(kg)	2.55±3%



## COMPLIED STANDARDS

IEC 60896-21/22	JIS C8704
YD/T799	BS6290 part4
GB/T 19638	UL 1989

## TECHNICAL SPECIFICATIONS



Nominal Voltage		12V(6 cells per unit)
Design Floating Life @25°C		5 Years
Watts/cell@25°C (@15min, 10.02V)		35W
Capacity @25°C	10 hour rate (0.8A, 10.8V)	8Ah
	3 hour rate (2.3A, 10.5V)	6.9Ah
	1 hour rate (5.8A, 9.6V)	5.8Ah
Internal Resistance	Full Charged Battery@25°C	≤20mΩ
Ambient Temperature	Discharge	-20°C~50°C
	Charge	-20°C~50°C
	Storage	-20°C~50°C
Max.Discharge Current@25°C		120A(5s)
Capacity affected by Temperature (10 hr Capacity)	40°C	102%
	25°C	100%
	0°C	85%
	-15°C	65%
Self-Discharge@25°C per Month		3%
Charge (Constant Voltage) @25°C	Standby Use	Initial Charging Current Less than 2.4A Voltage 13.6-13.8V
	Cycle Use	Initial Charging Current Less than 2.4A Voltage 14.4-14.9V

## BATTERY DISCHARGE TABEL

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

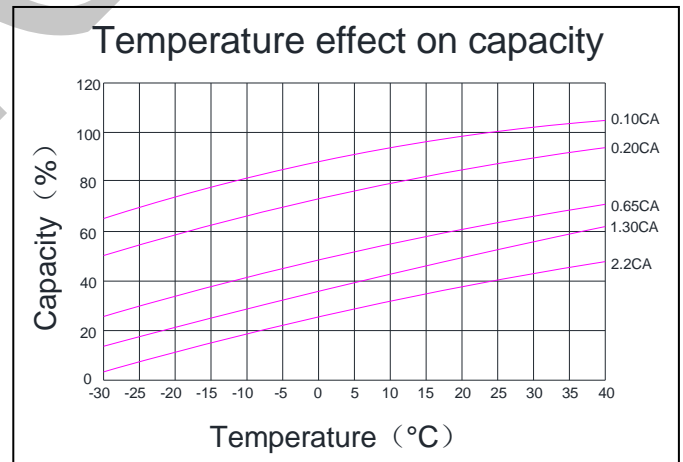
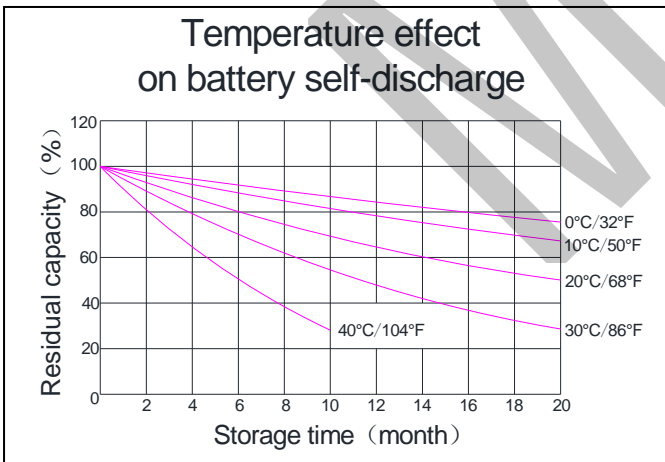
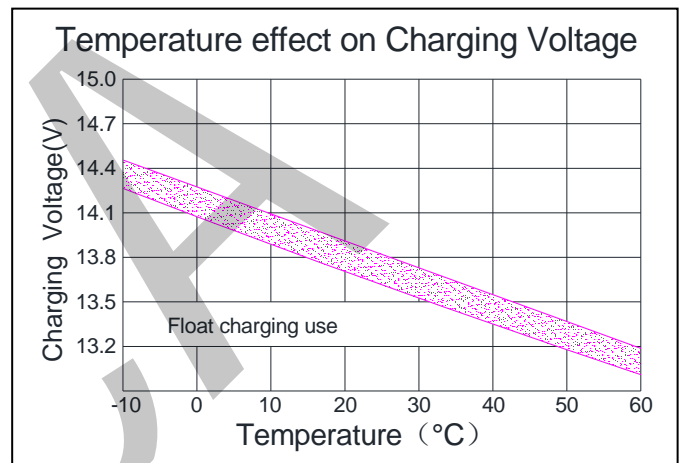
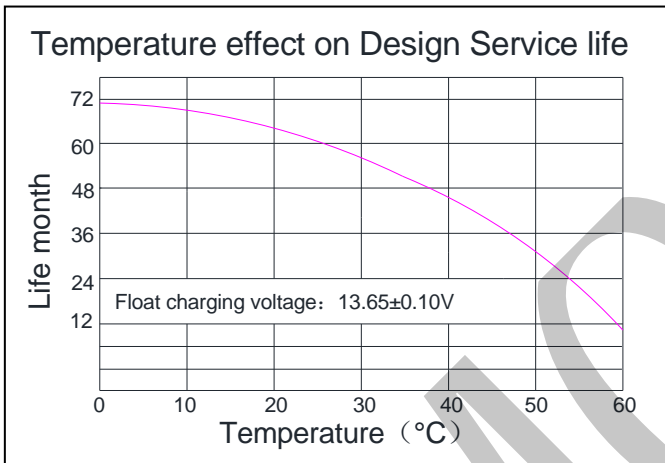
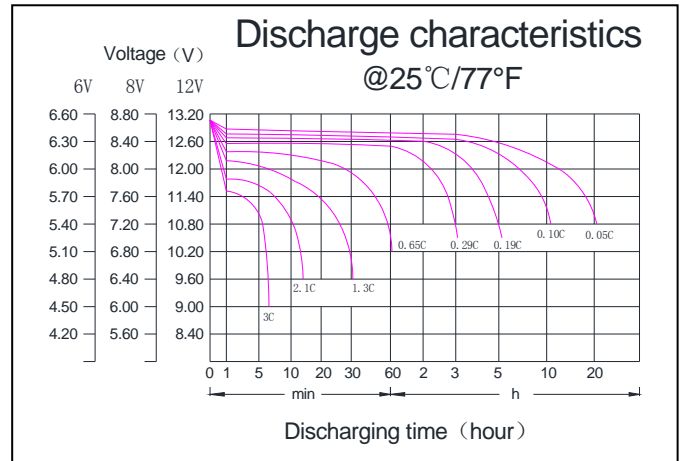
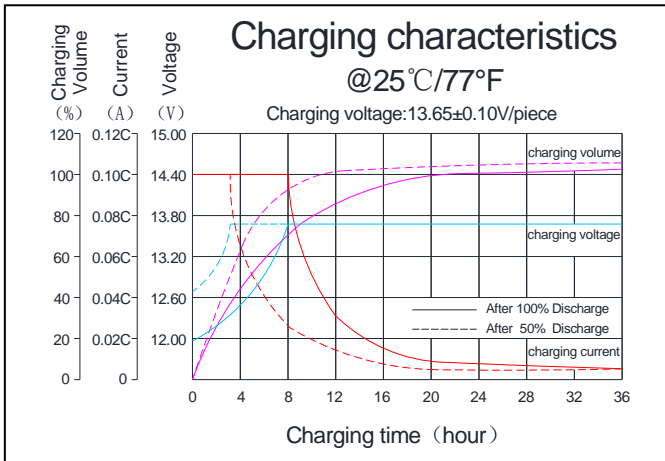
F.V/Time	5min	10min	15min	20min	25min	30min	45min	60min	90min	120min	180min	600min
1.60V	59.8	46.2	35.6	29.5	25.1	22.4	16.8	13.8	9.8	7.7	5.3	1.98
1.67V	58.7	45.4	35.0	29.1	24.6	21.9	16.5	13.5	9.6	7.5	5.2	1.96
1.70V	57.7	44.5	34.3	28.6	24.2	21.5	16.2	13.3	9.4	7.4	5.2	1.94
1.75V	56.6	43.7	33.7	27.7	23.7	21.1	15.9	13.0	9.2	7.3	5.2	1.90
1.80V	55.3	42.8	32.7	26.6	23.1	20.4	15.3	12.4	8.9	7.2	5.1	1.88

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

F.V/Time	5min	10min	15min	20min	25min	30min	45min	60min	90min	120min	180min	600min
1.60V	29.0	22.4	17.2	14.3	12.4	10.5	7.8	5.8	4.4	3.5	2.5	0.87
1.67V	28.5	22.0	16.9	14.1	12.2	10.3	7.6	5.7	4.3	3.4	2.4	0.85
1.70V	28.0	21.5	16.5	13.8	12.0	10.1	7.5	5.6	4.2	3.4	2.4	0.84
1.75V	27.4	21.1	16.2	13.4	11.7	9.9	7.4	5.5	4.1	3.3	2.3	0.82
1.80V	27.1	20.8	15.9	13.0	11.3	9.7	7.3	5.3	4.0	3.2	2.3	0.80

**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 (F1/F2)	Advanced AGM separator for high pressure cell design	Dilute high purity sulphuric acid	Two layers epoxy resin seal