

GENERAL FEATURES

- Wide operating temperature range from -30°C to 60°C
- Front access terminal for standard 19 inch or 23 inch power cabinets
- Nano gel electrolyte and long floating service Life
- High power density
- Low self discharge

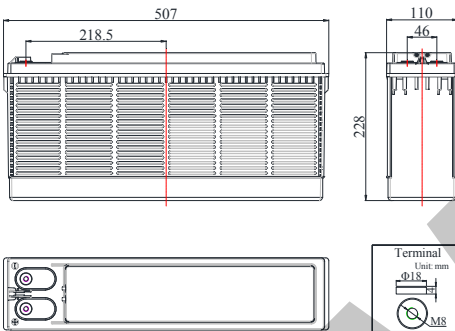
APPLICATIONS

- Telecom Control Equipments
- UPS systems
- Communication Equipments
- Medical Equipments
- Emergency Power Systems
- Network connection equipment of communication system



DIMENSIONS & WEIGHT

Length(mm)	507±1
Width(mm)	110±1
Height(mm)	228±1
Total Height(mm)	228±1
Weight(kg)	29.7±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		12 Years
Nominal Capacity @25°C(10 hour rate@10.0A,10.8V)		100Ah
Capacity @25°C	20hour rate (5.3A,10.8V)	106Ah
	5 hour rate (17.6A,10.5V)	88.0Ah
	1 hour rate (63.8A,9.6V)	63.8Ah
Internal Resistance	Full Charged Battery@25°C	≤5.3mΩ
Ambient Temperature	Discharge	-30°C~60°C
	Charge	-30°C~60°C
	Storage	-30°C~60°C
Max.Discharge Current@25°C		1000A(5s)
Capacity affected by Temperature (10 hr Capacity)	40°C	105%
	25°C	100%
	0°C	90%
	-15°C	70%
Self-Discharge@25°C per Month		3%
Charge (Constant Voltage) @25°C	Standby Use	Initial Charging Current Less than 20A Voltage 13.6-13.8V
	Cycle Use	Initial Charging Current Less than 20A Voltage 14.4-14.9V

BATTERY DISCHARGE TABEL

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

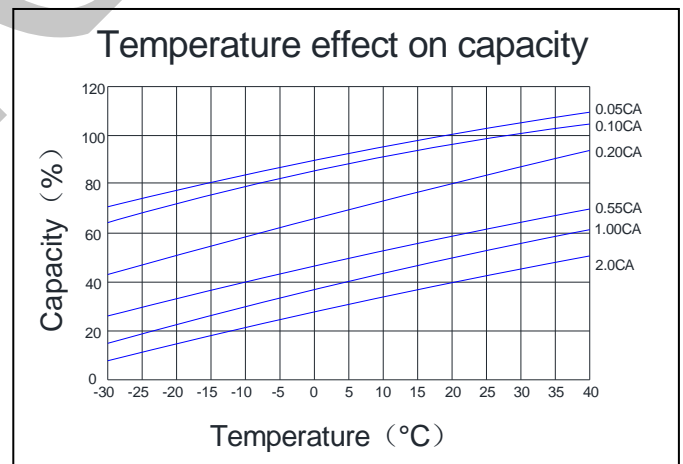
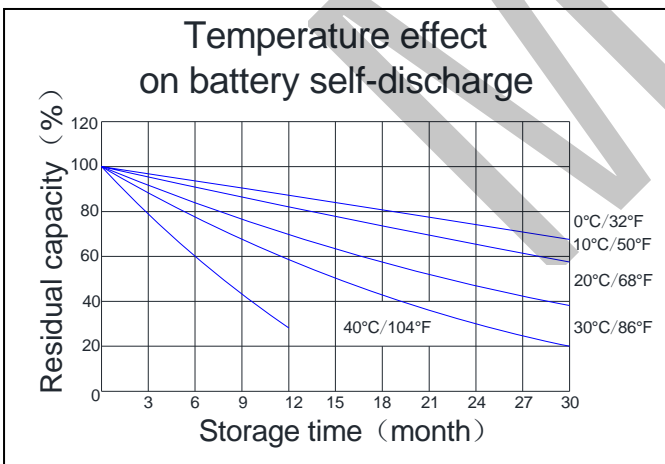
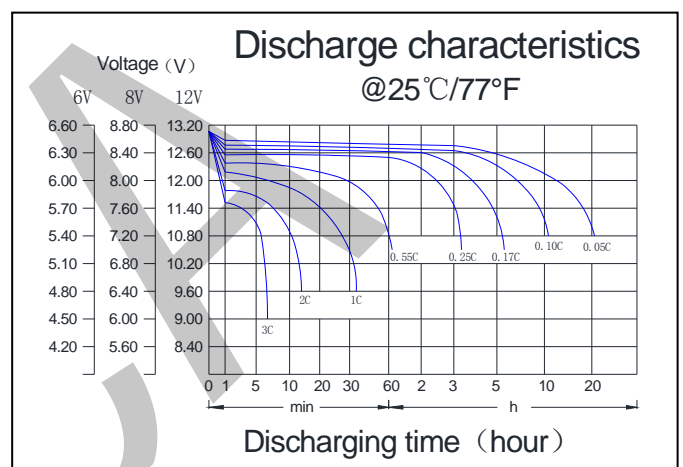
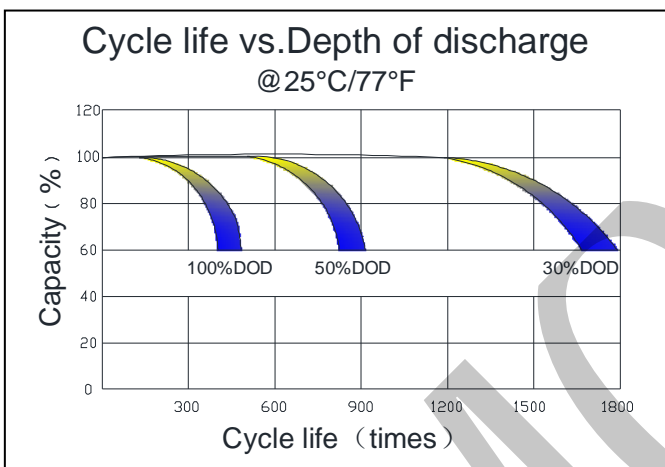
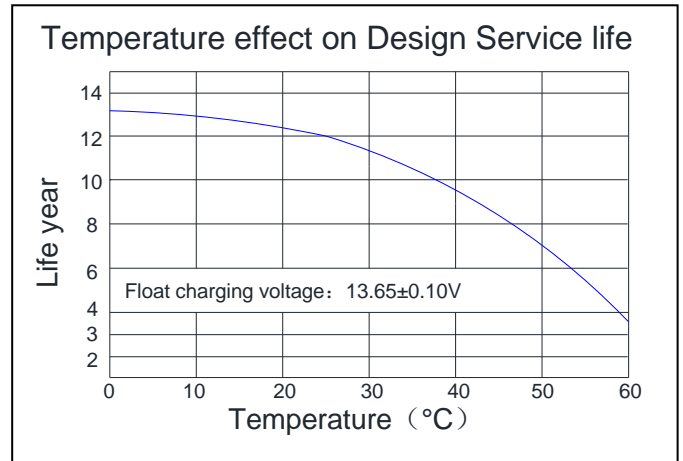
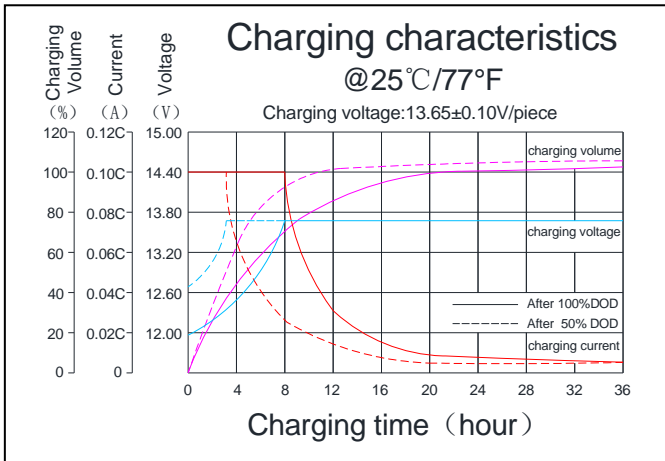
F.V/Time	10min	15min	30min	45min	1h	2h	3h	5h	8h	10h	20h
1.60V	232.5	180.5	111.3	80.5	63.8	37.5	27.6	18.6	12.7	10.5	5.55
1.65V	215.1	170.5	105.7	77.4	61.9	36.3	26.7	18.3	12.6	10.3	5.50
1.70V	199.5	160.1	101.8	74.6	59.5	35.3	26.0	17.9	12.4	10.2	5.44
1.75V	186.3	150.0	96.5	71.3	57.1	34.4	25.4	17.6	12.2	10.1	5.39
1.80V	167.6	140.7	93.1	68.7	55.1	33.1	24.6	17.2	12.0	10.0	5.30

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

F.V/Time	10min	15min	30min	45min	1h	2h	3h	5h	8h	10h	20h
1.60V	418.2	345.1	211.1	152.9	122.4	71.1	52.7	35.9	24.8	20.5	10.7
1.65V	391.4	330.2	201.9	147.7	119.1	69.2	51.3	35.3	24.6	20.3	10.6
1.70V	366.5	307.7	193.6	143.0	115.0	67.6	50.1	34.8	24.3	20.1	10.5
1.75V	344.9	288.7	184.3	137.3	110.8	66.0	49.1	34.3	24.0	19.9	10.4
1.80V	312.2	271.0	176.8	132.7	107.2	63.8	47.7	33.6	23.7	19.8	10.3

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-Rubber and aging resistor	Female Copper Insert M8 (torque: 7-9N.m)	Advanced AGM separator for high pressure cell design	Dilute high purity sulphuric acid with fumed Silica gel	Two layers epoxy resin seal