

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

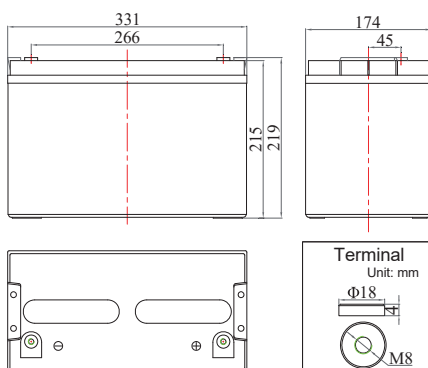
- Telecom Control Equipment
- UPS systems
- Communication Equipment
- Medical Equipment
- Emergency Power Systems
- Security Systems
- Railway Systems



SYSCG12-100

DIMENSIONS & WEIGHT

Length(mm)	331±1
Width(mm)	176±1
Height(mm)	215±1
Total Height(mm)	219±1
Weight(kg)	29.2±3%



COMPLIED STANDARDS

IEC 60896-21/22	JIS C8704
YD/T1360	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@10.00A,10.80V)		100Ah
Capacity @25°C	20 hour rate (5.35A,10.5V)	107.0Ah
	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	
Ambient Temperature	Discharge	-30°C ~ 60°C
	Charge	-30°C ~ 60°C
	Storage	-30°C ~ 60°C
Max.Discharge Current@25°C		900A(5s)
Capacity affected by Temperature (10 hr Capacity)	40°C	108%
	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 25A Voltage 13.6-13.8V
	Cycle Use	Initial Charging Current Less than 25A Voltage 14.4-14.9V

BATTERY DISCHARGE TABLE

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

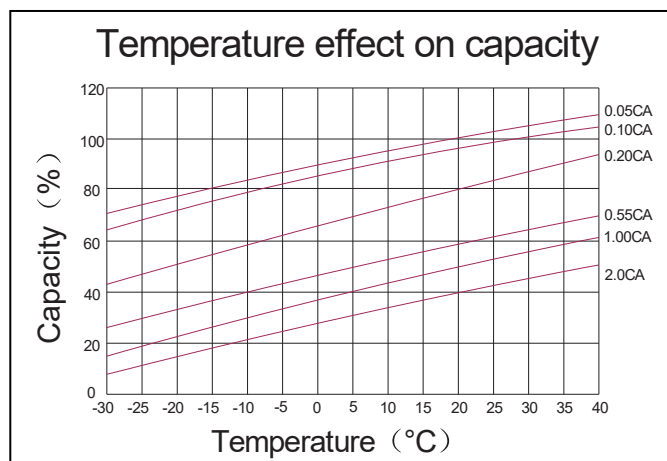
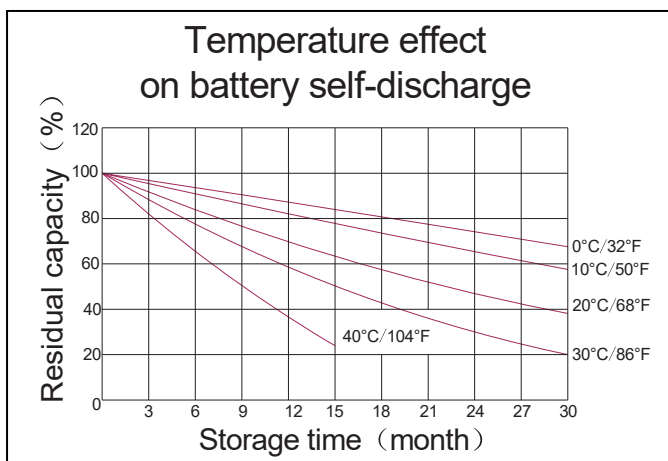
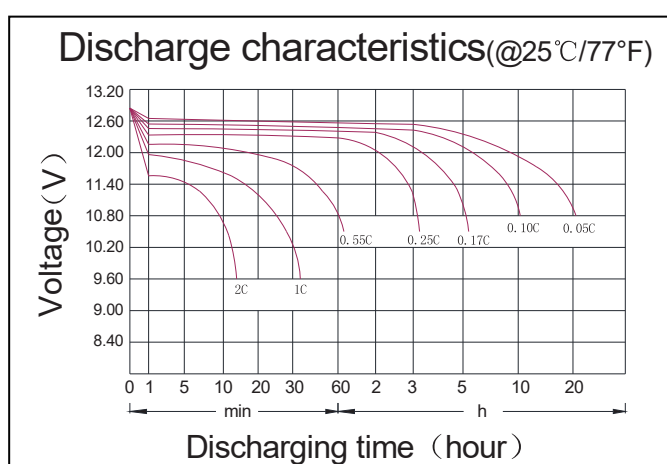
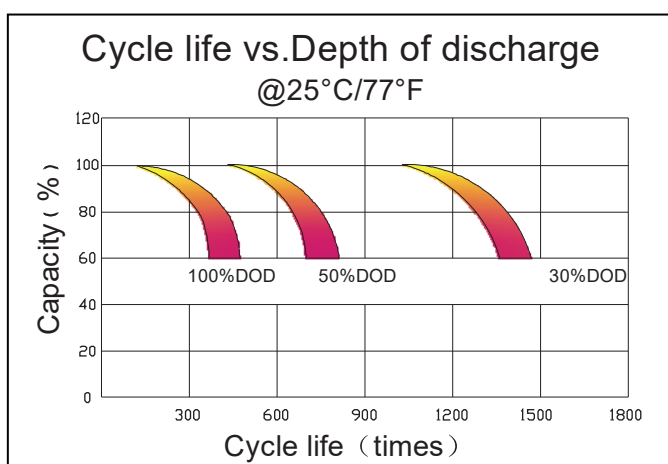
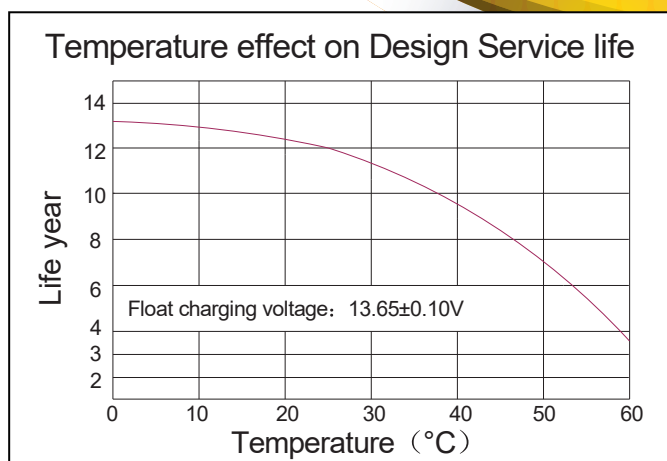
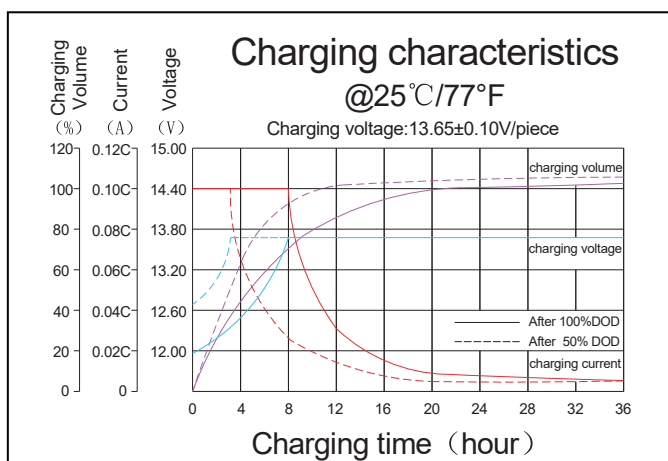
F.V/Time	15min	30min	45min	1h	2h	3h	5h	6h	8h	10h	20h
1.60V	180.5	106.3	80.5	63.8	37.5	27.6	18.6	16.2	12.7	10.5	5.55
1.67V	170.5	100.7	77.4	61.9	36.3	26.7	18.3	15.9	12.6	10.3	5.50
1.70V	160.1	97.8	74.6	59.5	35.3	26.0	17.9	15.6	12.4	10.2	5.42
1.75V	150.0	93.5	71.3	57.1	34.4	25.4	17.6	15.3	12.2	10.1	5.35
1.80V	140.7	90.1	68.7	55.1	33.1	24.6	17.2	15.0	12.0	10.0	5.30

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	345.1	211.1	152.9	122.4	71.1	52.7	35.9	31.3	24.8	20.5	11.0
1.67V	330.2	197.9	147.7	119.1	69.2	51.3	35.3	30.8	24.6	20.3	10.9
1.70V	307.7	193.6	143.0	115.0	67.6	50.1	34.8	30.4	24.3	20.1	10.7
1.75V	288.7	184.3	137.3	110.8	66.0	49.1	34.3	29.9	24.0	19.9	10.7
1.80V	271.0	176.8	132.7	107.2	63.8	47.7	33.6	29.4	23.7	19.8	10.6

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.

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 resistance	Female Copper Insert M8(torque:7~9N.m)	Advanced AGM separator for high pressure cell design	Dilute high purity sulphuric acid	Two layers epoxy resin seal