200AH GENERAL PURPOSE GEL VRLA BATTERY

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

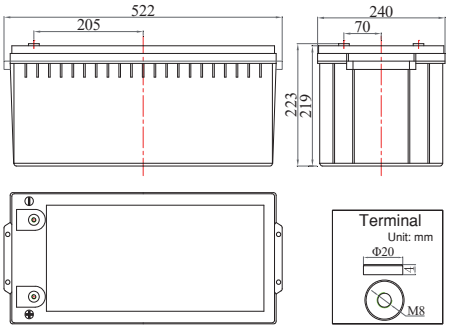
APPLICATIONS

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

SYSCG12-200

DIMENSIONS & WEIGHT

Length(mm)	522±1
Width(mm)	540±1
Height(mm)	219±1
Total Height(mm)	223±1
Weight(kg)	58.5±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 (10hour rate @20.00A,10.80V)		**200Ah**
Capacity @25°C	**20 hour rate (10.70A,10.5V)**	**214.0Ah**
	5 hour rate (35.2A,10.5V)	**176.0Ah**
	1 hour rate (127.6A,9.6V)	**127.6Ah**
Internal Resistance	**Full Charged Battery @25°C**	**≤3.9mΩ**
Ambient Temperature	**Discharge**	**-30°C ~ 60°C**
	Charge	**-30°C ~ 60°C**
	Storage	**-30°C ~ 60°C**
Max.Discharge Current @25°C		**2000A(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 40A Voltage 13.6-13.8V**
	Cycle Use	**Initial Charging Current Less than 40A 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	361.0	212.6	161.0	127.6	75.0	55.2	37.2	32.4	25.4	21.0	11.10
1.67V	341.0	201.4	154.8	123.8	72.6	53.4	36.6	31.8	25.2	20.6	11.00
1.70V	320.2	195.6	149.2	119.0	70.6	52.0	35.8	31.2	24.8	20.4	10.84
1.75V	300.0	187.0	142.6	114.2	68.8	50.8	35.2	30.6	24.4	20.2	10.70
1.80V	281.4	180.2	137.4	110.2	66.2	49.2	34.4	30.0	24.0	20.0	10.60

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	690.2	422.2	305.8	244.8	142.2	105.4	71.8	62.6	49.6	41.0	21.9
1.67V	660.4	395.8	295.4	238.2	138.4	102.6	70.6	61.6	49.2	40.6	21.8
1.70V	615.4	387.2	286.0	230.0	135.2	100.2	69.6	60.8	48.6	40.2	21.5
1.75V	577.4	368.6	274.6	221.6	132.0	98.2	68.6	59.8	48.0	39.8	21.3
1.80V	542.0	353.6	265.4	214.4	127.6	95.4	67.2	58.8	47.4	39.6	21.1

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.

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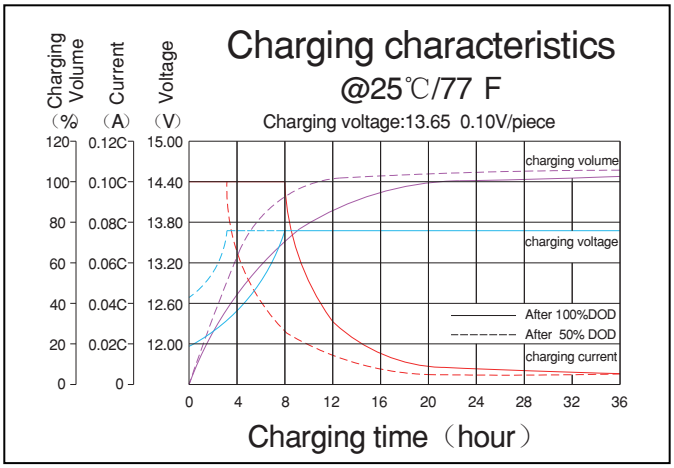
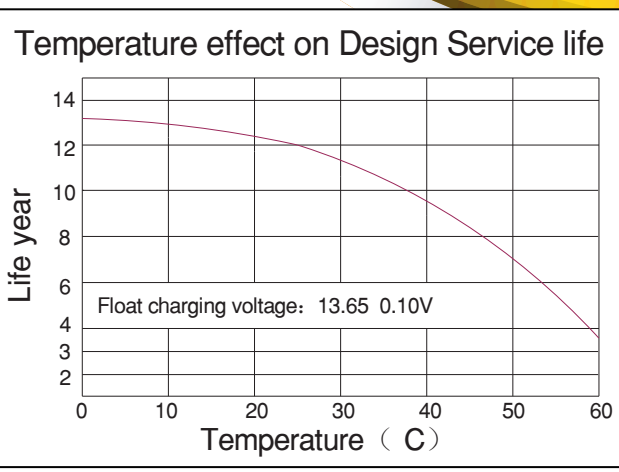
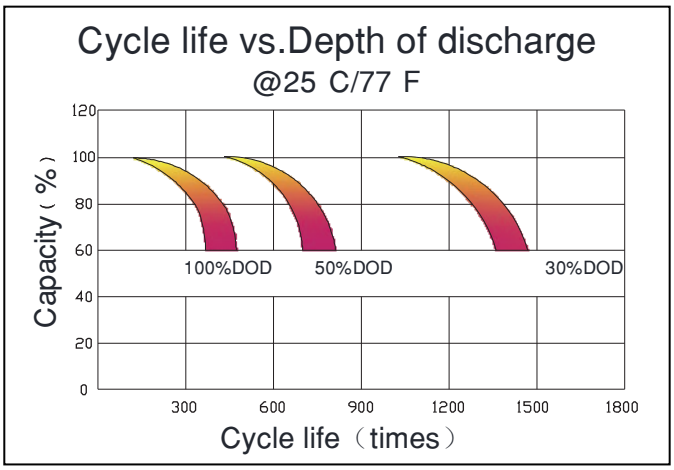
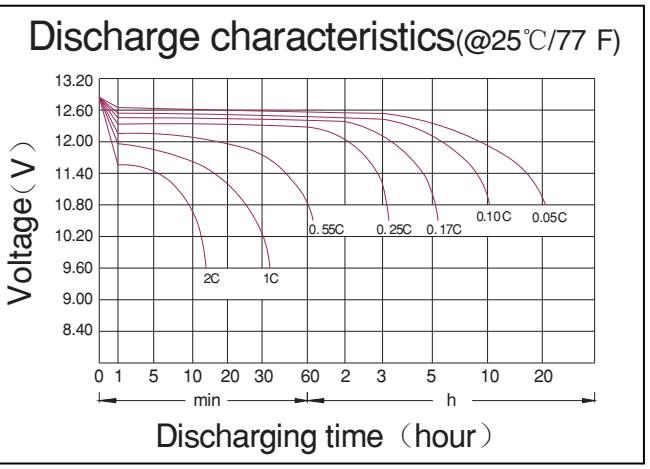
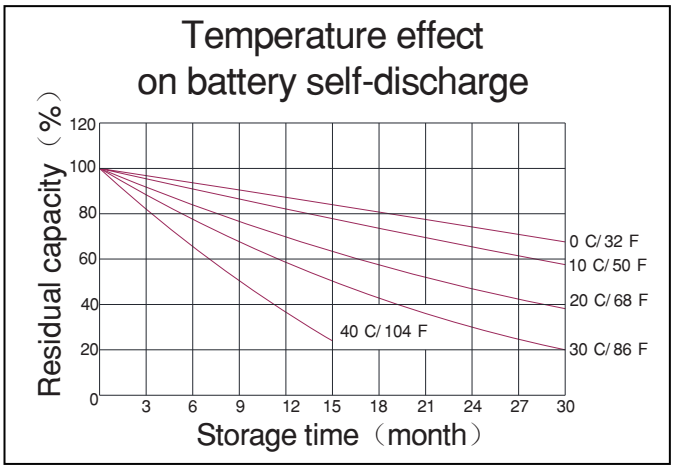
PERFORMANCE CHARACTERISTICS

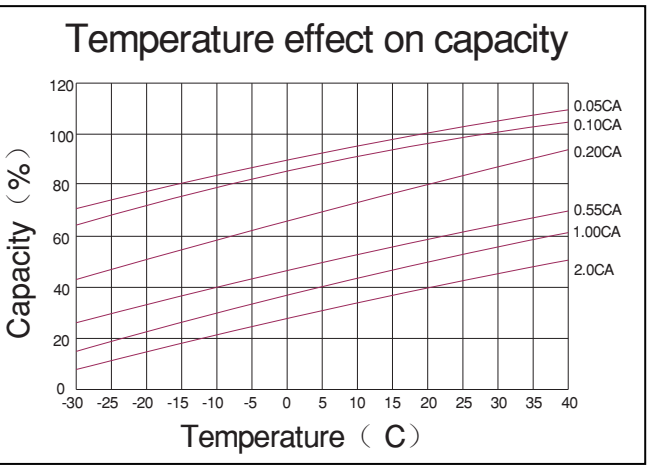












BATTERY CONSTRUCTION

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:9 ~11N.m)	Advanced AGM separator for high pressure cell design	Dilute high purity sulphuric acid	Two layers epoxy resin seal

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