

# S.E. GREEN BATTERY: Constant, Safe POWER for YOU

## Gel Battery 12 Volts 200 Ah

# SE200-12

S.E. Green SE series pure GEL battery is with 12-15 years floating design life, it is ideal for standby or frequent cyclic discharge applications under extreme environments. By adopting thicker grids, high purity 99.997% lead and patented Silicon Gel electrolyte, CG series offers excellent recovery performance after deep discharge under frequent cyclic discharge use, and can deliver 1200 cycles at 50% DOD even work in hot or cold area. Suitable for Solar, CATV, marine, RV and deep discharge UPS, communication, and telecommunication, etc.

12V Voltage	200Ah Capacity	GEL Technology	Durable Battery
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### COMPLIED STANDARDS



### GENERAL FEATURES

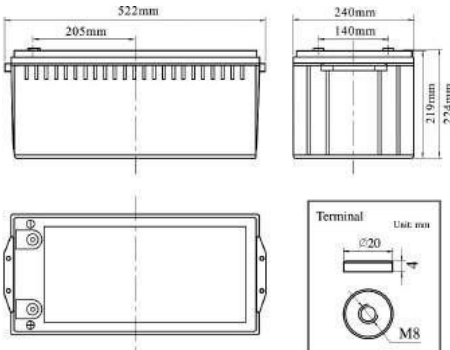
- 30% more cyclic life through innovation at the PAM additives than AGM battery
- Long life expectancy of 15 years in floating Condition
- Adopts quality silicon nano gel electrolyte
- Excellent deep discharge recovery capability
- Deep cycle performance: up to 1200 cycles @50% DOD

### APPLICATIONS

- Telecommunications
- UPS systems, Inverter
- Power Equipments
- Solar & Wind
- Emergency & Security

### DIMENSIONS & WEIGHT

Length(mm/inch)	522/20.55
Width(mm/inch)	240/9.44
Height(mm/inch)	219/8.62
Total Height(mm/inch)	224/8.81
Weight(kg/lbs) (±3%)	56.5/124.6



### TECHNICAL SPECIFICATIONS

Nominal Voltage		12V(6 cells per unit)
Design Floating Life @25°C		15 Years
Nominal Capacity @25°C(20 hour rate@10.0A,10.8V)		200Ah
Capacity @25°C	10hour rate (18.0A,10.8V)	180Ah
	5 hour rate (32.9A,10.5V)	164.5Ah
	1 hour rate (119.8A,9.6V)	119.8Ah
Internal Resistance	Full Charged Battery@25°C	≤2 5mΩ
Ambient Temperature	Discharge	-20°C~60°C
	Charge	-10°C~60°C
	Storage	-20°C~60°C
Max.Discharge Current@25°C		1200A (5s)
Capacity affected by Temperature (10 hour)	40°C	105%
	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 50A Voltage 13.6-13.8V
	Cycle Use	Initial Charging Current Less than 50A Voltage 14.4-14.9V

### BATTERY DISCHARGE TABLE

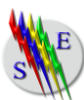
#### Discharge Constant Current per Cell (Amperes at 25°C)

F.V/Time	15min	30min	45min	1h	2h	3h	5h	8h	10h	20h
1.60V	303.9	189.1	135.7	119.8	73.0	53.4	34.3	21.0	18.72	10.39
1.65V	291.2	184.0	132.0	116.5	71.6	52.4	33.9	20.8	18.54	10.29
1.70V	278.6	179.0	128.4	113.3	70.3	51.4	33.4	20.6	18.36	10.19
1.75V	265.9	173.9	124.8	110.1	68.6	50.2	32.9	20.4	18.18	10.09
1.80V	253.3	168.8	121.1	106.9	67.0	49.0	32.4	20.2	18.00	10.00

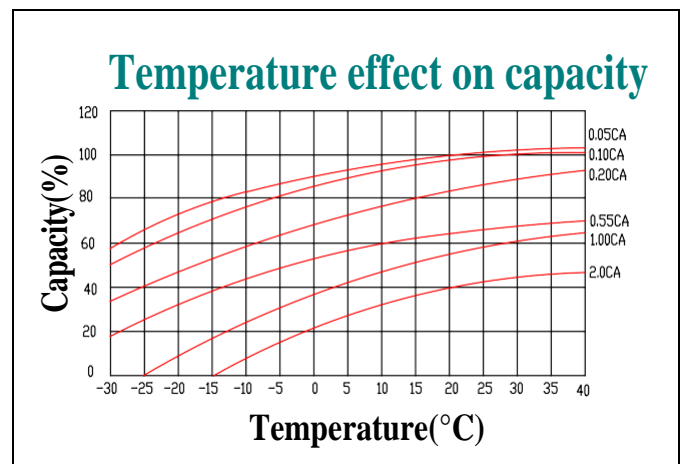
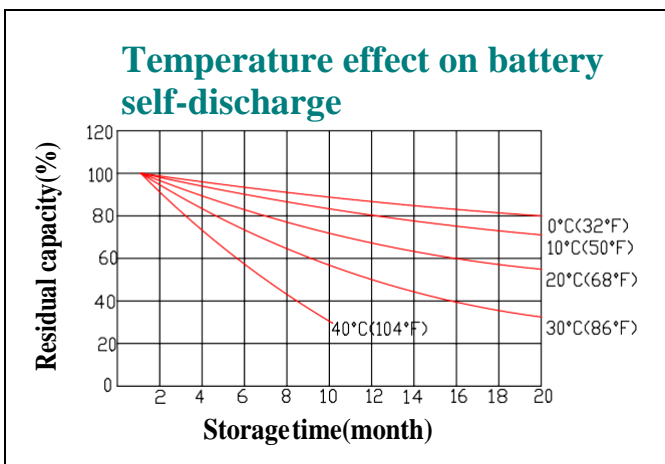
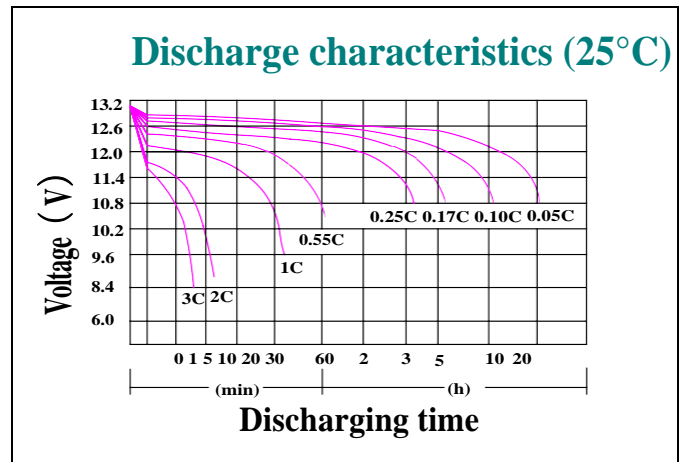
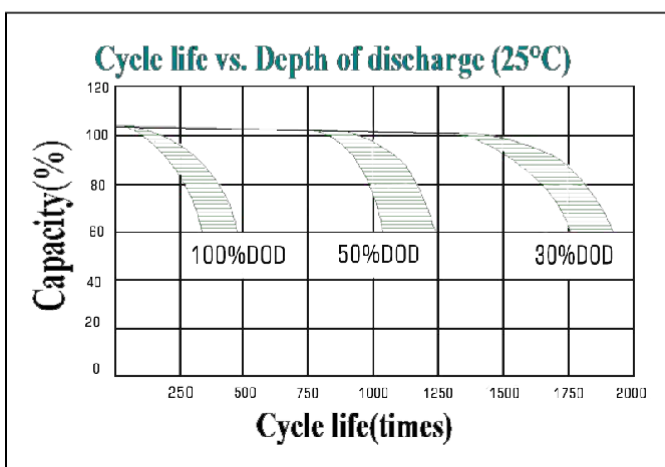
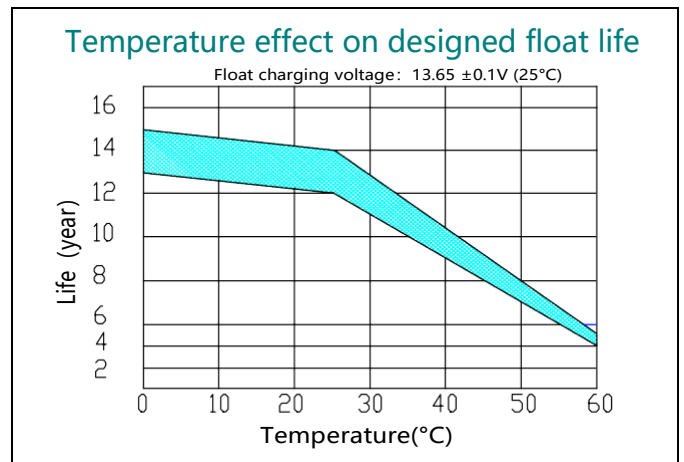
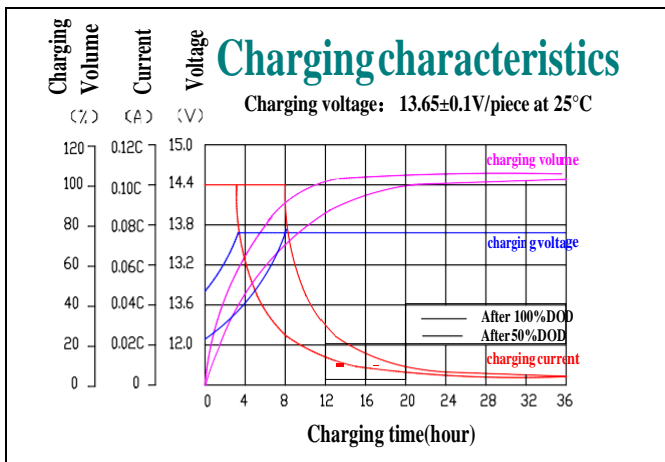
#### Discharge Constant Power per Cell (Watts at 25°C)

F.V/Time	15min	30min	45min	1h	2h	3h	5h	8h	10h	20h
1.60V	566.8	352.7	253.0	223.3	136.1	99.5	64.1	39.1	34.9	19.4
1.65V	543.2	343.2	246.3	217.4	133.6	97.7	63.1	38.7	34.6	19.2
1.70V	519.6	333.8	239.5	211.4	131.1	95.9	62.2	38.4	34.2	19.0
1.75V	495.9	324.3	232.7	205.4	128.0	93.6	61.3	38.0	33.9	18.8
1.80V	472.3	314.9	225.9	199.4	124.9	91.3	60.4	37.6	33.6	18.6

**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 Plat	Negative plate	Container & Cover	Safety valve	Terminal	Separator	Electrolyte	Pillar Sea
Features	Thick high Sn low Ca grid with special paste	Balanced Pb-Ca grid for improved recombination efficiency	Fire resistance ABS (UL94-V0)	Flame Si-Rubber and aging resistance	Female Copper Insert M8	Advanced PVC /AGM separator for high pressure cell design	Silicon Gel	Two layers epoxy resin seal

