

SG Series

SG(Gel) series batteries are designed to meet the requirements of frequent cyclic and high temperature applications such as broadband, PVs etc through up-to-date gel technologies. The C&R SG batteries uses German origin high purity fumed silica to form sulfuric acid thixotropic Gel and fills to the batteries with vacuum to ensure the fully penetration of electrolyte through separators and plates pastes.

General Features

- Good tolerance to higher temperature applications.
- ABS containers and covers(UL94HB, UL94V-0) optional.
- Safety valve installation for explosion proof.
- Higher safety & reliable construction.
- Extra durability and deep cycle ability for heavy demand applications.
- Low self discharge characteristic.
- Ideal for cyclic uses.

Construction

- ComponentRaw material
- PositiveLead dioxide
- NegativeLead
- ContainerABS
- CoverABS
- SealantEpoxy Resin
- Safety valveEPDR
- TerminalCopper
- SeparatorAGM
- Electrolytesulfuric acid thixotropic Gel

Application

- Electric Powered Vehicles
- Golf Cars and Buggies
- Wheel Chairs
- Broadband
- Electric Powered Toys
- Control System
- Vacuum Cleaners
- Medical Equipments
- UPS
- PVs



Performance Characteristics

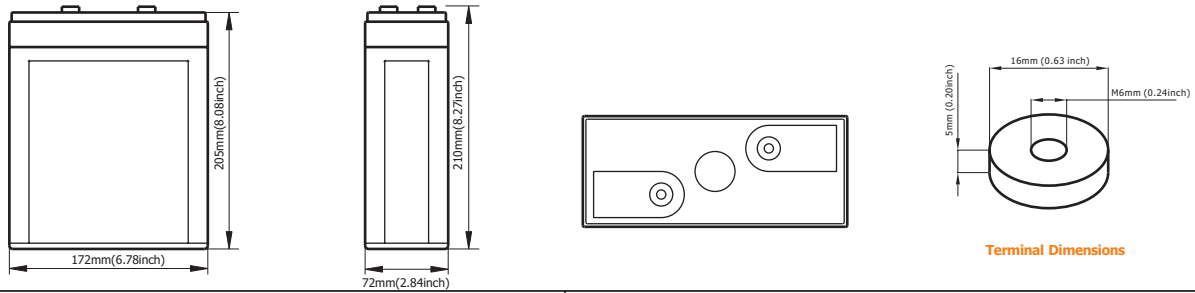
Battery Model	SG 2-100			
Designed Life	12 Years (Floating) or > 750 Cycles @ 50% D.O.D			
Capacity(25°C)	20HR(5.04A,1.75V)	10HR(10A,1.75V)	5HR(17A,1.75V)	1HR(62A,1.75V)
	101AH	100AH	85AH	62AH
Dimensions	Length	Width	Height	Total Height
	171mm(6.73inch)	72mm(2.84inch)	205mm(8.07inch)	210mm(8.27inch)
Approx. Weight	5.6Kg (12.35 lbs)			
Internal Resistance	Full charged at 25°C :0.0009 Ohm			
Self Discharge	3% of capacity declined per month at (25°C)			
Capacity Affected by Temp.(20HR)	40°C	25°C	0°C	-15°C
	102%	100%	85%	65%
Charge Voltage(25°C)	Cycle use		Float use	
	2.4-2.46V(-5mV/ °C), max. Current: 25A		2.26-2.30(-3mV/ °C)	

Constant Current Discharge Ratings-Amperes at 77°F(25°C)

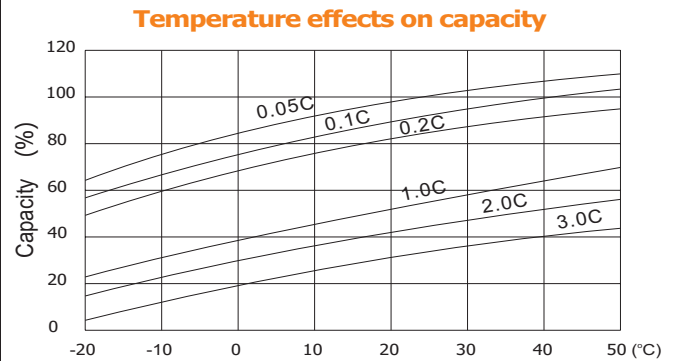
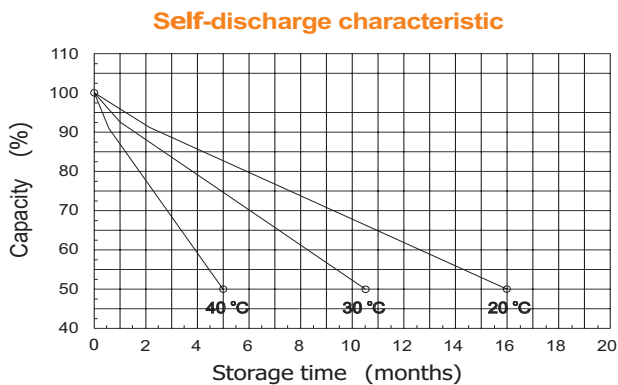
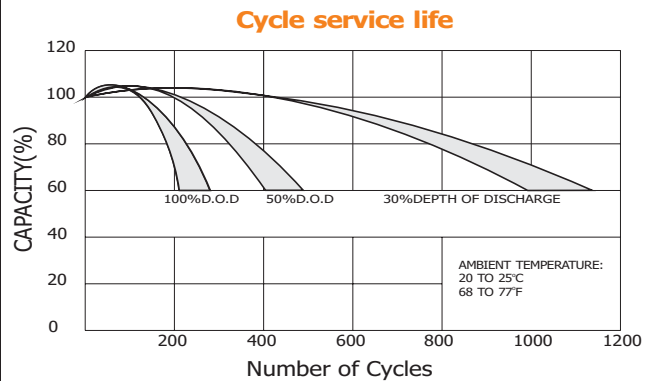
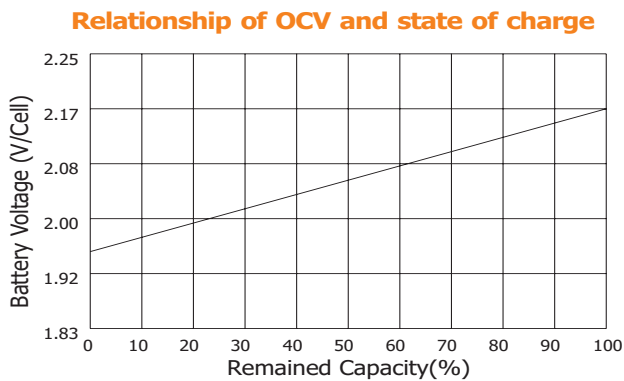
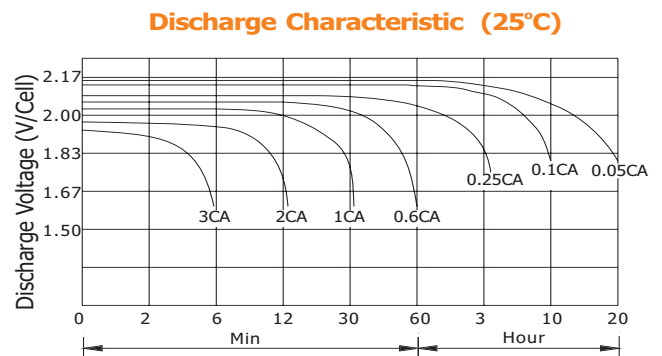
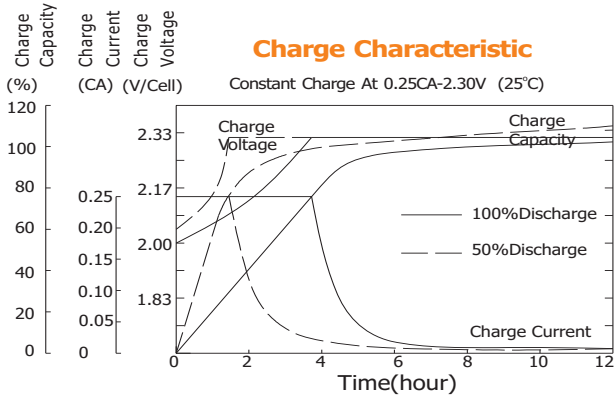
F. V/Time	5MIN	10MIN	15MIN	30MIN	1HR	3HR	5HR	10HR	20HR
1.60V	350	240	175	105	66.0	27.3	19.1	10.6	5.27
1.65V	315	219	170	102	65.9	27.2	18.9	10.4	5.25
1.70V	299	211	164	100	65.7	27.2	18.9	10.4	5.25
1.75V	266	195	155	98	65.0	27.0	18.8	10.2	5.23
1.80V	240	181	148	95	64.2	26.9	18.6	10.0	5.04
1.85V	182	149	128	87	63.5	26.8	18.5	9.8	4.74

Constant Power Discharge Ratings-Watts at 77°F(25°C)

F. V/Time	5MIN	10MIN	15MIN	30MIN	1HR	3HR	5HR	10HR	20HR
1.60V	577	398	310	198	130	52.4	36.5	21.2	10.5
1.65V	547	393	307	194	126	52.4	36.5	20.9	10.5
1.70V	511	383	302	189	122	52.4	36.5	20.7	10.5
1.75V	476	358	284	184	121	51.6	36.1	20.4	10.5
1.80V	427	333	267	179	119	50.9	35.5	20.0	10.1
1.85V	342	276	233	164	118	50.7	35.0	19.7	9.48



Terminal Dimensions



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