

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

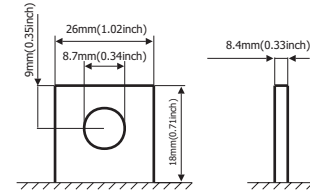
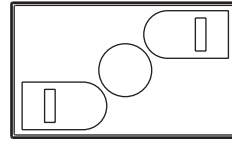
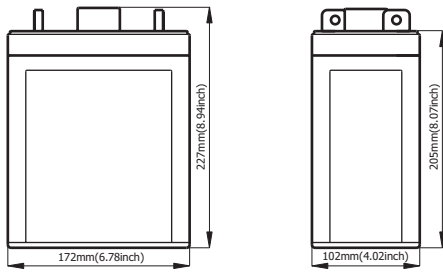
Battery Model	SG 2-150			
Designed Life	12 Years (Floating) or > 750 Cycles @ 50% D.O.D			
Capacity(25°C)	20HR(7.56A,1.75V)	10HR(15A,1.75V)	5HR(27A,1.75V)	1HR(97A,1.75V)
	151AH	150AH	135AH	97AH
Dimensions	Length	Width	Height	Total Height
	172mm(6.77inch)	102mm(4.02inch)	205mm(8.07inch)	227mm(8.94inch)
Approx. Weight	8.4Kg (18.5 lbs)			
Internal Resistance	Full charged at 25°C :0.0008 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: 37.5A		2.26-2.30(-3mV/ °C)	

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

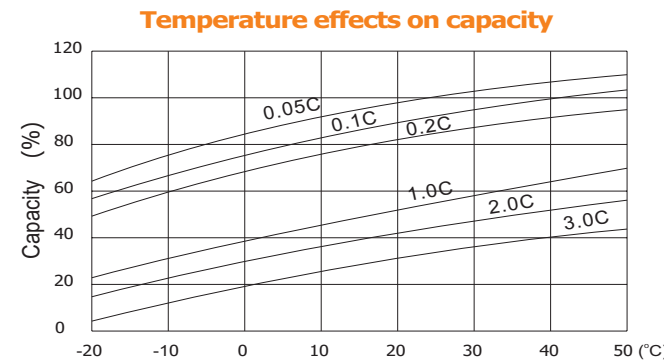
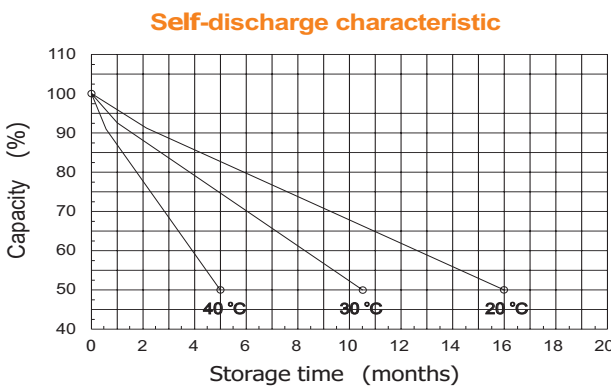
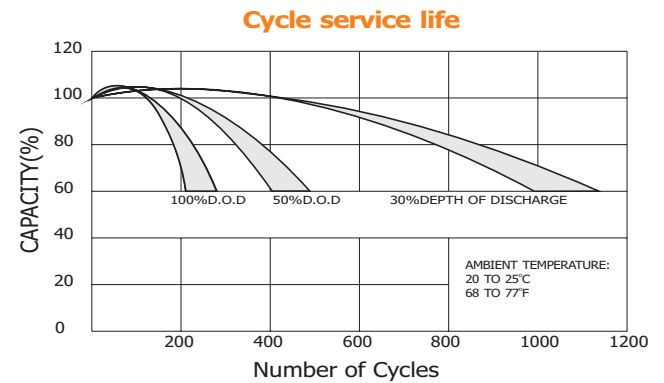
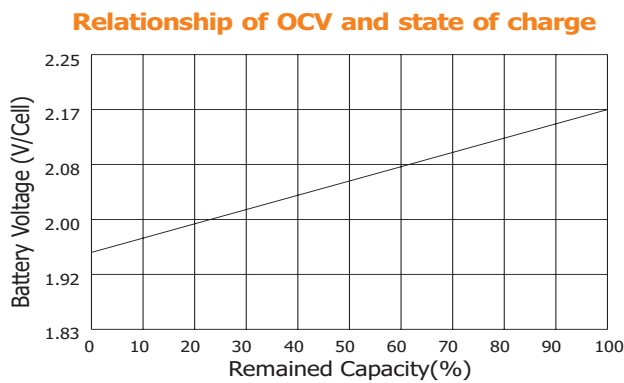
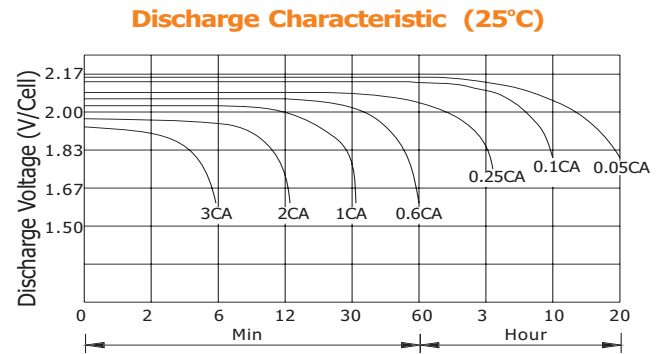
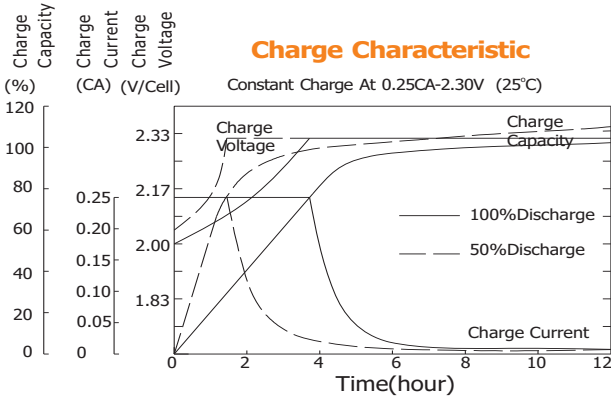
F. V/Time	5MIN	10MIN	15MIN	30MIN	1HR	3HR	5HR	10HR	20HR
1.60V	525	360	263	158	99.0	41.0	28.6	15.9	7.91
1.65V	473	329	255	153	98.9	40.8	28.4	15.7	7.88
1.70V	449	317	246	150	98.6	40.8	28.4	15.5	7.88
1.75V	399	293	233	147	97.5	40.5	28.2	15.3	7.84
1.80V	360	272	222	143	96.3	40.4	27.9	15.0	7.56
1.85V	273	224	192	131	95.3	40.2	27.7	14.7	7.11

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

F. V/Time	5MIN	10MIN	15MIN	30MIN	1HR	3HR	5HR	10HR	20HR
1.60V	866	597	465	297	195	78.6	54.8	31.8	15.8
1.65V	821	590	461	291	189	78.6	54.8	31.3	15.8
1.70V	767	575	453	284	184	78.6	54.8	31.1	15.8
1.75V	714	537	426	276	182	77.4	54.2	30.6	15.7
1.80V	641	500	401	269	179	76.4	53.3	30.0	15.1
1.85V	513	414	350	246	177	76.1	52.5	29.5	14.2



Terminal Dimensions



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