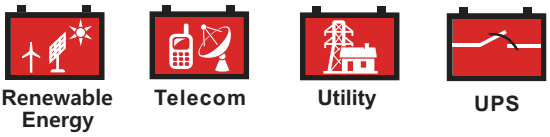
SCG 2V series

Superior Cycle Gel Battery

AGG SCG series is Superior Cycle VRLA Gel battery. By combining the newly developed nano gel electrolyte and high cyclic paste, SCG series delivers high cycle life, excellent high&low temperature performance, it is highly suited for renewable energy systems, outdoor telecom and cyclic applications in harsh environment.



Features and Benefits

- 15 years long life design at 25°C (77°F)
- Excellent cyclic life thanks to thick plate design and advanced nano-gel technology
- Long shelf life thanks to low self-discharge rate
- High temperature resistance and high overcharge resistance
- Integrated handle for easy installation
- Wide temperature range operating between -40℃ and +60℃
- International Standards Compliance, i.e. IEC, EN, BS, CE, etc.

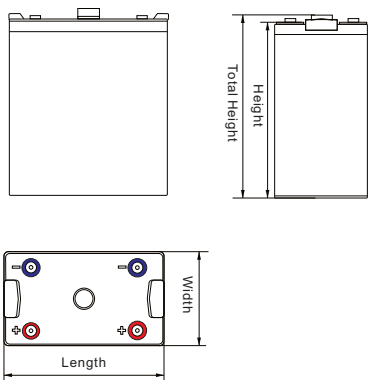
Superior Cycle Gel Battery

Electrical Specifications

Model	Number of cell	Nominal Voltage (V)	Capacity (25℃)					Internal Resistance	Short Circuit Current	Maximum Current	
			C_{10} @1.80 V/cell	C_8 @1.75 V/cell	C_3 @1.70 V/cell	C_1 @1.60 V/cell	C_{15min} @1.65 V/cell			Charge	Discharge (5 sec)
			(Ah)				W/cell	(mΩ)	(A)	(A)	
VHR 2SCG200	1	2	200	200	161	129	433	0.75	2800	50	1400
VHR 2SCG300	1	2	300	300	234	193	649	0.60	4000	75	1500
VHR 2SCG400	1	2	400	400	323	257	865	0.44	5100	100	2000
VHR 2SCG500	1	2	500	500	391	322	1082	0.40	6000	125	2000
VHR 2SCG600	1	2	600	600	469	386	1298	0.33	7000	150	2500
VHR 2SCG800	1	2	800	800	617	515	1525	0.28	9000	200	3200
VHR 2SCG1000	1	2	1000	1000	806	642	1906	0.24	11000	250	4000
VHR 2SCG1200	1	2	1200	1200	967	771	2288	0.20	12000	300	4000
VHR 2SCG1500	1	2	1500	1500	1209	964	2860	0.17	14000	375	5000
VHR 2SCG2000	1	2	2000	2000	1612	1285	3813	0.14	17500	500	6000
VHR 2SCG2500	1	2	2500	2500	2015	1606	4766	0.12	21000	625	6000
VHR 2SCG3000	1	2	3000	3000	2423	1932	5720	0.11	27000	750	8000

Physical Specifications

Model	Dimension(mm)				Weight (kg)	Terminal	
	Length	Width	Height	Total Height		Type	Torque (N.m)
VHR 2SCG200	170	105	340	345	13.8	F-M8	10-12
VHR 2SCG300	170	150	340	345	19.2	F-M8	10-12
VHR 2SCG400	195	170	340	345	25.7	F-M8	10-12
VHR 2SCG500	240	170	340	345	30.2	F-M8	10-12
VHR 2SCG600	283	170	340	345	37.2	F-M8	10-12
VHR 2SCG800	382	170	340	345	51.2	F-M8	10-12
VHR 2SCG1000	470	170	340	345	60.2	F-M8	10-12
VHR 2SCG1200	470	170	340	345	64.5	F-M8	10-12
VHR 2SCG1500	353	335	335	345	90.5	F-M8	10-12
VHR 2SCG2000	475	335	335	345	117.5	F-M8	10-12
VHR 2SCG2500	475	335	335	345	130.5	F-M8	10-12
VHR 2SCG3000	695	338	335	345	174.5	F-M8	10-12



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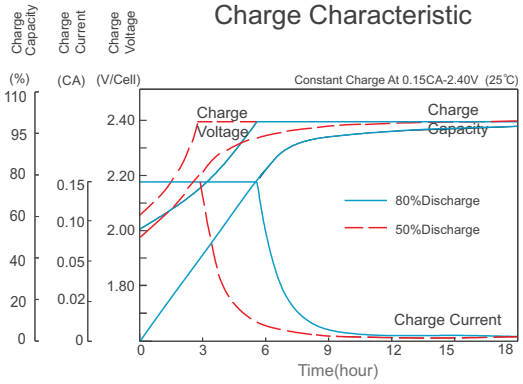
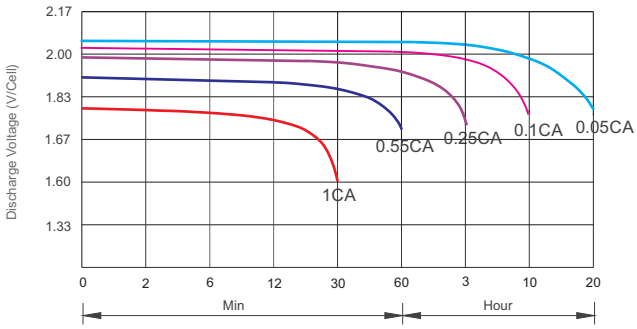
Charge/Discharge Characteristics

Charge Characteristic



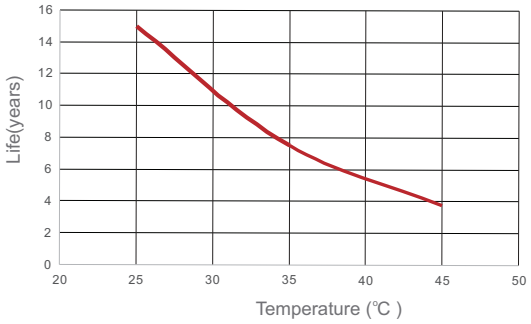
Discharge Characteristic (25°C)



*Float voltage: 2.25Vpc, Equalization voltage: 2.35 Vpc @25℃

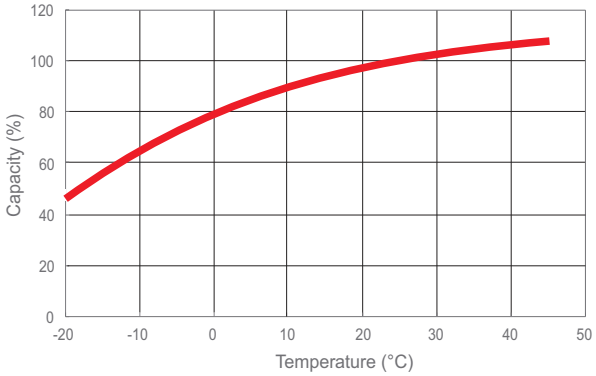
Temperature Characteristics

Temperature vs Float Life



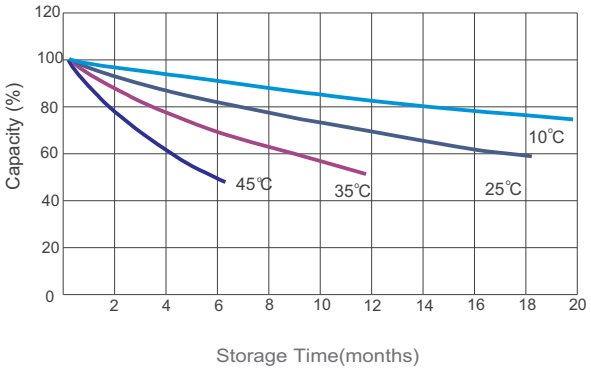
Temperature Range		
Discharge	Charge	Storage
-40℃ to +60℃	-20℃ to +55℃	-20℃ to +45℃

Capacity vs Temperature



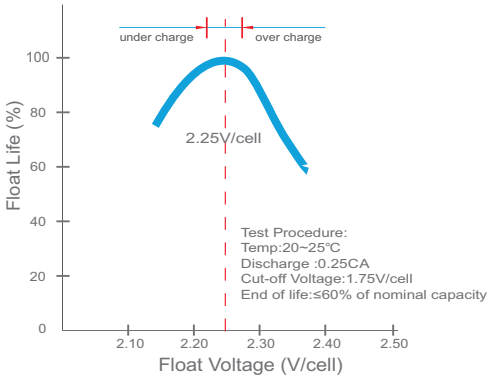
Self Discharge Characteristics

Self Discharge Characteristics



Stationary/ Floating characteristics

Float voltage vs Float life



Standards Compliance

IEC60896-21/-22 BS6290 part4

SCG 2V series superior cycle gel batteries-03-H-EN 2019 subject to technical modification. E.&O.E.