

SOLAR BATTERY STORAGE SOLUTIONS



SEALED PERFORMANCE BATTERIES

VOLTINGER solar batteries manufactured by Leoch, one of leading supplier in SLI battery industry, with customizes design and advanced GEL technology. these batteries have quality to meet SOLAR projects and thanks to this technology, suitably for economic projects vs other type of batteries.



VOLTINGER SOLAR Battery

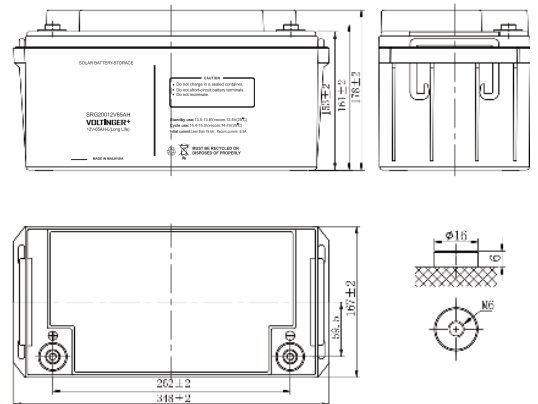
SRG20012V65AH(12V65Ah)

Specifications

Rated Voltage	12V	
Nominal Capacity	C ₂₀ , 1.80V/cell	65Ah
Dimension	Length	348±2mm (13.9 inches)
	Width	167±2mm (6.57 inches)
	Container Height	174±2mm (6.85 inches)
	Total Height	174±2mm (6.85 inches)
Approx Weight	21kg (47.2 lbs)	
Terminal	M6	
Container Material	ABS	
Rated Capacity(25°C)	65.0 Ah	C20(3.25A, 1.80V/cell)
	60.0 Ah	C10(6.00A, 1.80V/cell)
	53.0 Ah	C5(10.6A, 1.75V/cell)
	47.4 Ah	C3(15.8A, 1.75V/cell)
	38.0 Ah	C1(38.0A, 1.60V/cell)
Max. Discharge Current	650A (5s)	
Internal Resistance(25°C)	Approx 9.4mΩ	
Operating Temp. Range	Discharge	-20 ~ 55°C (-4 ~ 131°F)
	Charge	-20 ~ 40°C (-4 ~ 104°F)
	Storage	-15 ~ 50°C (5 ~ 122°F)
Nominal Operating Temp. Range	25±3°C (77±5°F)	
Standby Use	Initial Charging Current less than 16.25A Voltage	
	2.23V~2.27V at 25°C(77°F)Temp. Coefficient -3mV/°C	
Equalization Use	Initial Charging Current less than 16.25AVoltage	
	2.30V~2.37V at 25°C(77°F)Temp. Coefficient -4mV/°C	
Cycle Use	Initial Charging Current less than 16.25AVoltage	
	2.40V~2.50V at 25°C(77°F)Temp. Coefficient -5mV/°C	
Effect of temp. to Capacity	40°C (104°F)	103%
	25°C (77°F)	65%
	0°C (32°F)	86%
Self Discharge	SRG20012V65AH batteries may be stored for up to 6 months at 25°C(77°F) and then a freshening charge is required. For higher temperatures the time interval will be shorter.	



Layout



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

F.V/Time	10min	15min	20min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	79.0	68.5	53.8	48.7	35.6	28.2	21.9	17.4	13.8	11.3	9.78	8.56	6.94	5.88	3.04
1.80V/cell	89.6	77.6	60.9	53.0	37.7	31.2	23.2	19.2	15.2	12.2	10.3	9.05	7.24	6.00	3.25
1.75V/cell	97.2	84.0	65.7	54.1	39.1	35.0	25.4	20.6	15.8	12.6	10.6	9.37	7.35	6.18	3.27
1.70V/cell	101.7	88.2	69.2	54.5	39.7	36.1	26.0	21.0	16.1	12.6	10.7	9.37	7.42	6.18	3.32
1.67V/cell	106.9	91.8	71.6	56.0	40.5	36.8	26.5	21.4	16.3	12.8	10.9	9.50	7.48	6.24	3.35
1.60V/cell	110.6	94.7	73.4	56.8	41.1	38.0	27.3	21.9	16.5	13.1	11.2	9.65	7.54	6.30	3.39

Constant Power Discharge (Watts/cell) at 25°C (77°F)

F.V/Time	10min	15min	20min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	148.5	129.6	102.4	93.1	68.5	54.8	42.6	34.1	27.1	22.2	19.3	16.9	13.7	11.7	6.05
1.80V/cell	166.2	145.0	114.5	100.5	72.1	60.2	44.9	37.3	29.7	23.9	20.2	17.8	14.3	11.9	6.46
1.75V/cell	177.3	154.8	122.3	101.8	74.2	67.1	48.9	39.8	30.7	24.6	20.8	18.4	14.5	12.2	6.50
1.70V/cell	182.3	160.3	127.1	101.5	74.8	68.6	49.7	40.4	31.1	24.6	21.0	18.4	14.6	12.2	6.58
1.67V/cell	189.5	165.3	130.6	103.7	75.9	69.7	50.6	41.1	31.5	24.9	21.3	18.6	14.7	12.3	6.63
1.60V/cell	192.1	167.6	132.4	104.1	76.3	71.3	51.5	41.6	31.7	25.2	21.6	18.8	14.7	12.4	6.71

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Applications

- Solar Energy system
- Renewable energy
- Wind power system
- of-grid projects

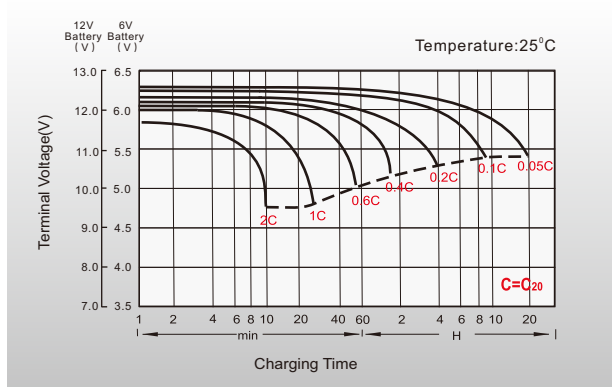
General Features

- Battery design life up to 10 years
- Special plate design guarantees battery floating life more than 4000 times
- High thermal capacity reduce the risk of thermal out of control and drying hard, and the battery can be used in bad environment
- Advanced GEL and higher technology for Solar application

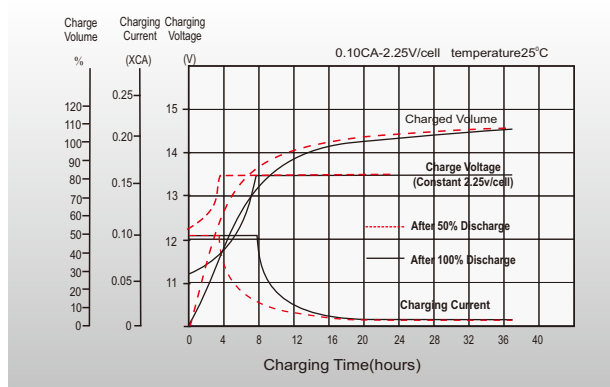
Standards

- IEC 60896-21, IEC 60896-22
- Classified as "Long Life" according to Eurobat
- UL Certified
- Manufactured in Leoch® IATF16949, ISO 9001, ISO 14001 and ISO 45001 certified production facilities

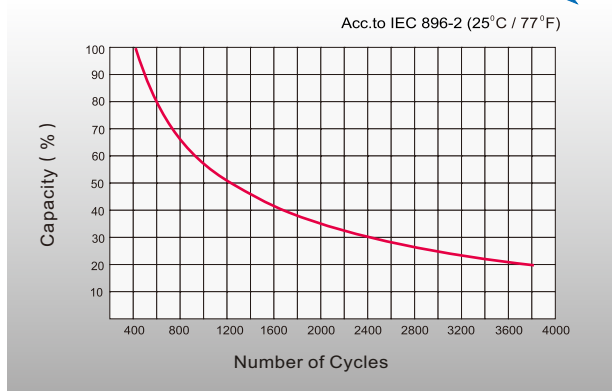
Discharge Characteristics



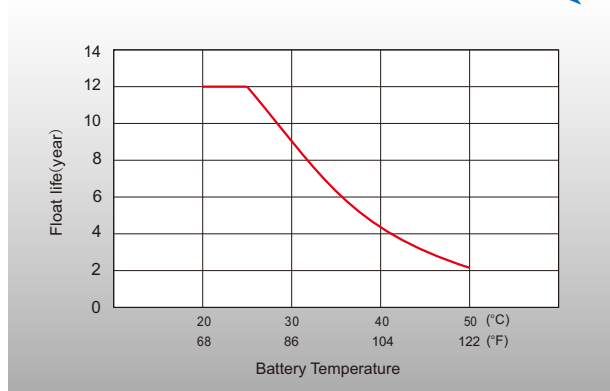
Float Charging Characteristics



Cycle Life in Relation to Depth of Discharge



Effect of Temperature on Long Term Float Life



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