

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

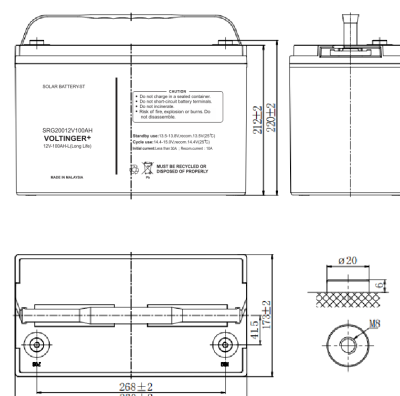
SRG20012V100AH(12V100Ah)

Specifications

Rated Voltage	12V	
Nominal Capacity	C ₂₀ , 1.80V/cell	100Ah
Dimension	Length	330±2mm (13.0 inches)
	Width	173±2mm (6.81 inches)
	Container Height	212±2mm (8.35 inches)
	Total Height	220±2mm (8.58 inches)
Approx Weight	30.5kg (67.2 lbs)	
Terminal	M8	
Container Material	ABS	
Rated Capacity(25°C)	100.0 Ah	C20(5.00A, 1.80V/cell)
	90.0 Ah	C10(9.00A, 1.80V/cell)
	79.5 Ah	C5(15.9A, 1.75V/cell)
	71.1 Ah	C3(23.7A, 1.75V/cell)
	57.0 Ah	C1(57.0A, 1.60V/cell)
Max. Discharge Current	1000A (5s)	
Internal Resistance(25°C)	Approx 6.9mΩ	
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 25A. Voltage	
	2.23V~2.27V at 25°C(77°F)Temp. Coefficient -3mV/°C	
Equalization Use	Initial Charging Current less than 25A. Voltage	
	2.30V~2.37V at 25°C(77°F)Temp. Coefficient -4mV/°C	
Cycle Use	Initial Charging Current less than 25A. Voltage	
	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)	100%
	0°C (32°F)	86%
Self Discharge	SRG20012V100AH 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	118.4	102.7	80.8	65.3	52.1	42.3	30.8	26.1	20.8	16.9	14.7	12.8	10.4	8.82	4.75
1.80V/cell	134.4	116.4	91.3	75.8	59.2	46.8	34.0	28.8	22.8	18.3	15.5	13.6	10.9	9.00	5.00
1.75V/cell	145.8	126.0	98.6	79.2	61.4	52.5	37.5	30.9	23.7	18.9	15.9	14.0	11.0	9.27	5.11
1.70V/cell	152.5	132.3	103.7	82.9	63.7	54.2	38.3	31.5	24.5	19.3	16.4	14.3	11.2	9.36	5.26
1.67V/cell	160.4	137.7	107.4	85.2	64.9	55.2	39.1	32.1	24.8	19.6	16.7	14.5	11.3	9.45	5.30
1.60V/cell	165.9	142.0	110.1	90.4	68.0	57.0	40.3	32.8	25.0	19.8	16.8	14.7	11.4	9.51	5.33

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	222.8	194.4	153.6	123.2	98.8	82.2	60.0	51.1	40.7	33.2	28.9	25.3	20.6	17.5	9.10
1.80V/cell	249.2	217.5	171.8	141.6	111.2	90.4	65.9	56.0	44.5	35.9	30.3	26.7	21.4	17.8	9.50
1.75V/cell	266.0	232.1	183.4	146.7	114.6	100.6	72.2	59.8	46.1	36.9	31.2	27.5	21.7	18.3	9.80
1.70V/cell	273.4	240.6	190.6	151.9	117.9	102.8	73.9	61.3	46.9	37.3	32.0	27.9	22.0	18.4	10.0
1.67V/cell	284.2	248.0	195.9	155.2	119.6	104.5	75.2	62.4	47.5	37.8	32.4	28.2	22.1	18.5	10.1
1.60V/cell	288.2	251.5	198.7	162.2	124.2	106.9	76.4	62.8	47.7	38.0	32.6	28.4	22.2	18.6	10.1

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Applications

- Telecommunications
- Solar system
- Wind power system
- Engine starting
- Wheelchair, Floor cleaning machines, Golf trolley, Boats

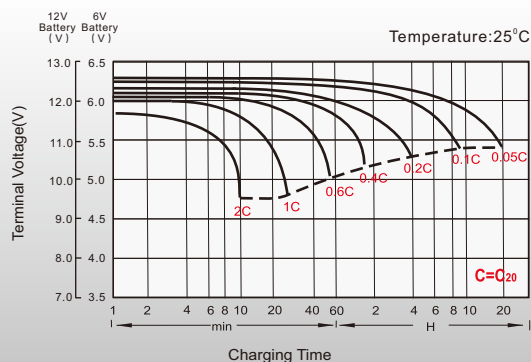
General Features

- Battery design life up to 12 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
- Little water losing, and no electrolyte stratification phenomenon

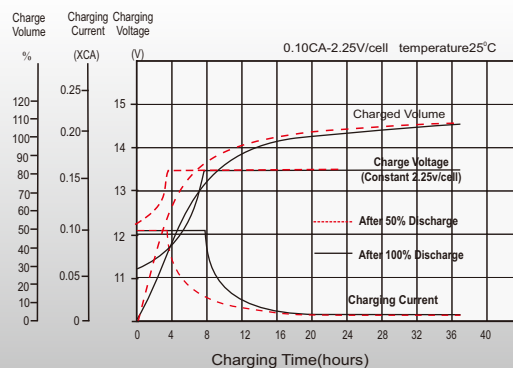
Standards

- 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

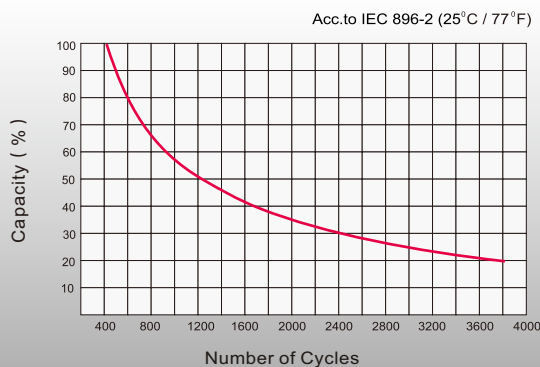
Discharge Characteristics



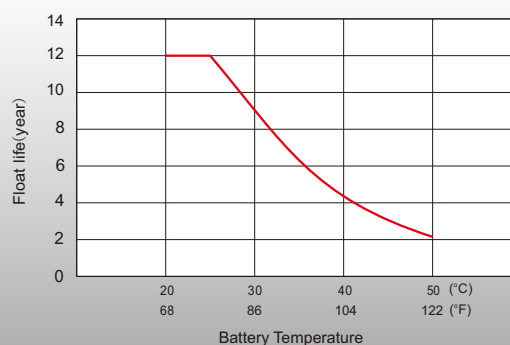
Float Charging Characteristics



Cycle Life in Relation to Depth of Discharge



Effect of Temperature on Long Term Float Life



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