

## Solar Series SLA Battery

## Range Summary

By combining the newly developed nano gel electrolyte with high density paste, BSB created an innovative range of Solar batteries. The range offers high recharge efficiency at the very low charge current. The acid stratification is highly depressed by adding of gel. This range battery is highly suited to energy storage for renewable energy such as PV and wind turbine power systems applications.

## Application

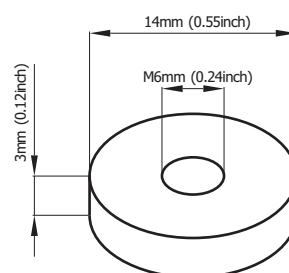
- Photovoltaic system
- Renewable Energy System
- Electric Utility
- Outdoor control Equipment
- Railroad Utility

## General Features

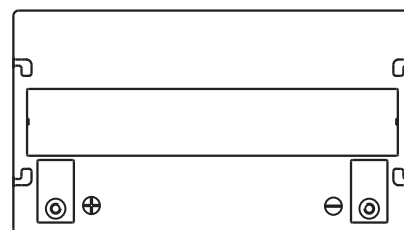
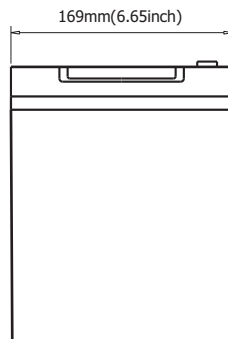
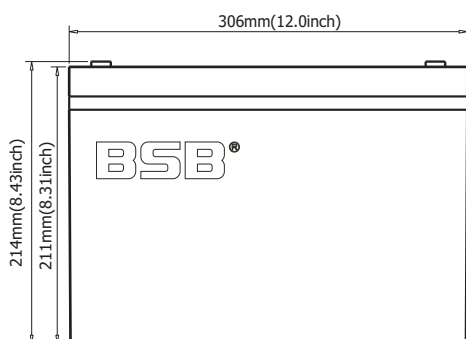
- 12 years float life at 20°C
- Up to 5 years design life at renewable energy applications
- Wide operating temperature range of -15 to 60°C
- Nano gel electrolyte eliminate the acid stratification and prolong cycle life
- Round trip efficiency as high as 85%
- Thick positive flat plate with high density paste
- Low self-discharge rate and long shelf life( 1 year at 25°C)
- Excellent deep discharge recovery capability

## Construction

- Positive .....Lead dioxide
- Negative .....Lead
- Container.....ABS
- Cover .....ABS
- Sealant .....Epoxy Resin
- Safety valve .....EPDR
- Terminal .....Copper
- Separator .....AGM
- Electrolyte .....Acid with gel

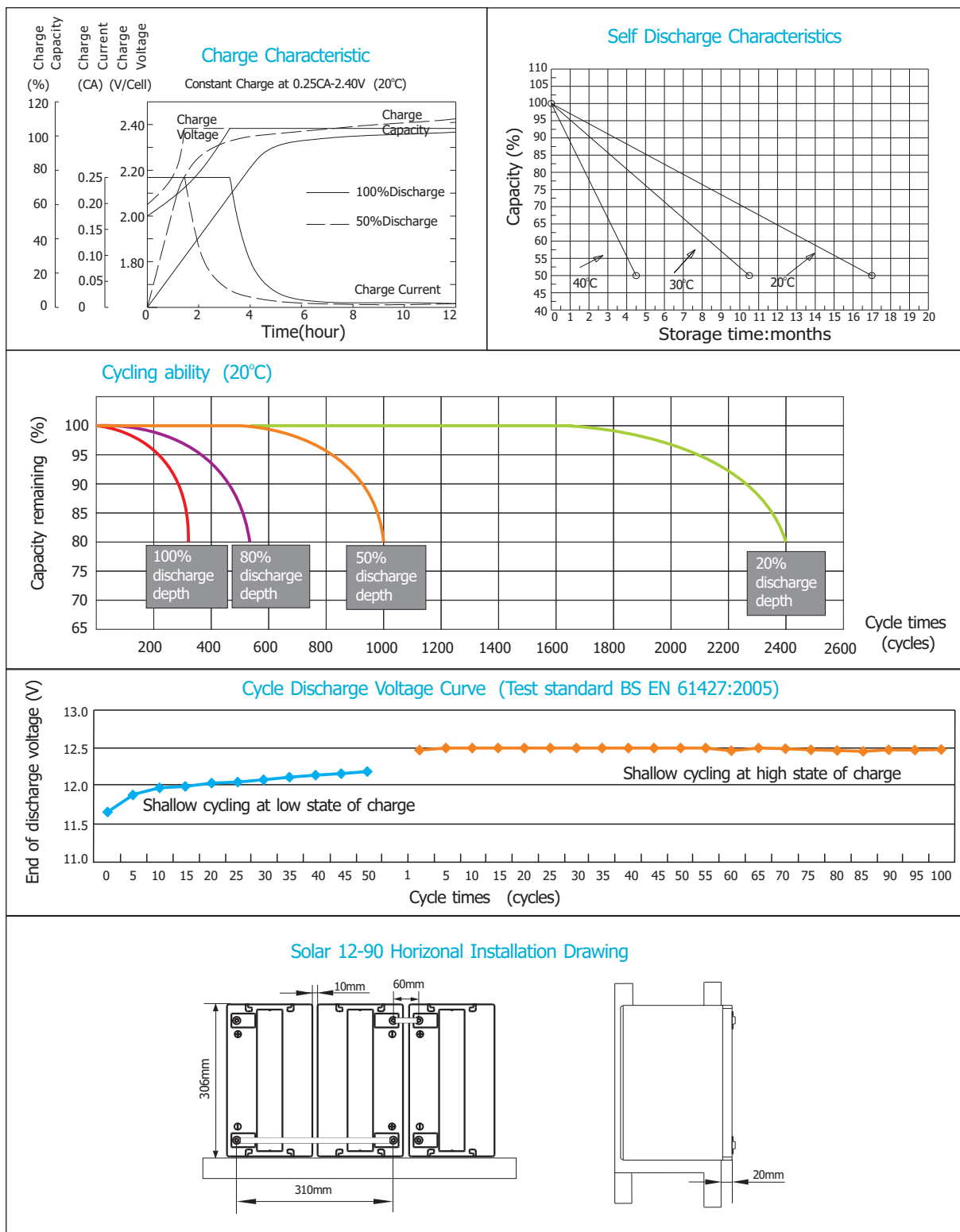


Terminal Dimensions



Battery Model	Solar 12-90			
Designed Floating Life	12 Years			
Designed Cycle Life	5 Years			
Capacity(20°C)	10HR(9A,1.80V)	24HR(4A,1.80V)	48HR(2.08A,1.80V)	100HR(1.08A,1.80V)
	90Ah	96Ah	100Ah	108Ah
Dimensions	Length	Width	Height	Total Height
	306mm(12.0inch)	169mm(6.65inch)	211mm(8.31inch)	214mm(8.43inch)
Approx. Weight	26.3Kg (58 lbs)			
Internal Resistance	Full charged at 20°C: 0.0055 Ohm			
Self Discharge	3% of capacity declined per month at (20°C)			
Capacity Affected by Temp.(10HR)	40°C	20°C	0°C	-15°C
	109%	100%	85%	65%
Charge Voltage(20°C)	Cycle use		Float use	
	14.4-14.8V(-30mV/ °C), max. Current: 22.5A		13.6-13.8V(-18mV/ °C)	

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## Constant current discharge ratings-amperes at 20°C

TIME	1h	3h	5h	10h	24h	48h	72h	100h	120h
CUT-OFF VOLTAGE	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80
CAPACITY(Ah)	57	68	78	90	96	100	104	108	110