

Solar Series SLA Battery

Solar Series

By combining the newly developed nano gel electrolyte and high density positive plate paste, BSB Solar series Valve-regulated lead acid batteries offers high daily cycle life and high recharge efficiency at the very low charge current. The acid stratification is highly depressed by adding of gel electrolyte. This range battery is highly suited to energy storage for renewable energy such as PV and wind turbine power systems applications.

Application

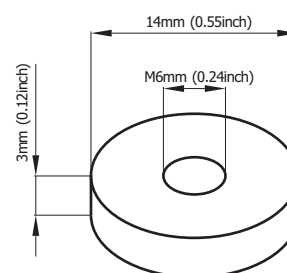
- Photovoltaic system
- Renewable Energy System
- Electric Utility
- Outdoor control Equipment
- Railroad Utility

General Features

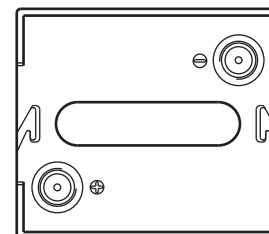
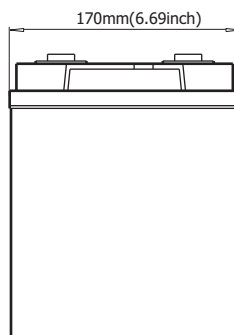
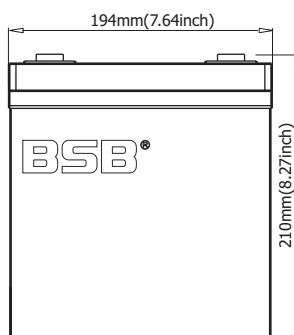
- 12 years float life at 20°C
- Up to 5 years design life at renewable energy applications
- Wide operating temperature range of -15 to 60°C
- Nano gel electrolyte eliminate the acid stratification and prolong cycle life
- Round trip efficiency as high as 85%
- Thick positive flat plate with high density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

Construction

- ComponentRaw material
- PositiveLead dioxide
- NegativeLead
- ContainerABS
- CoverABS
- SealantEpoxy Resin
- Safety valveEPDR
- TerminalCopper
- SeparatorAGM
- ElectrolyteHybrid Gel

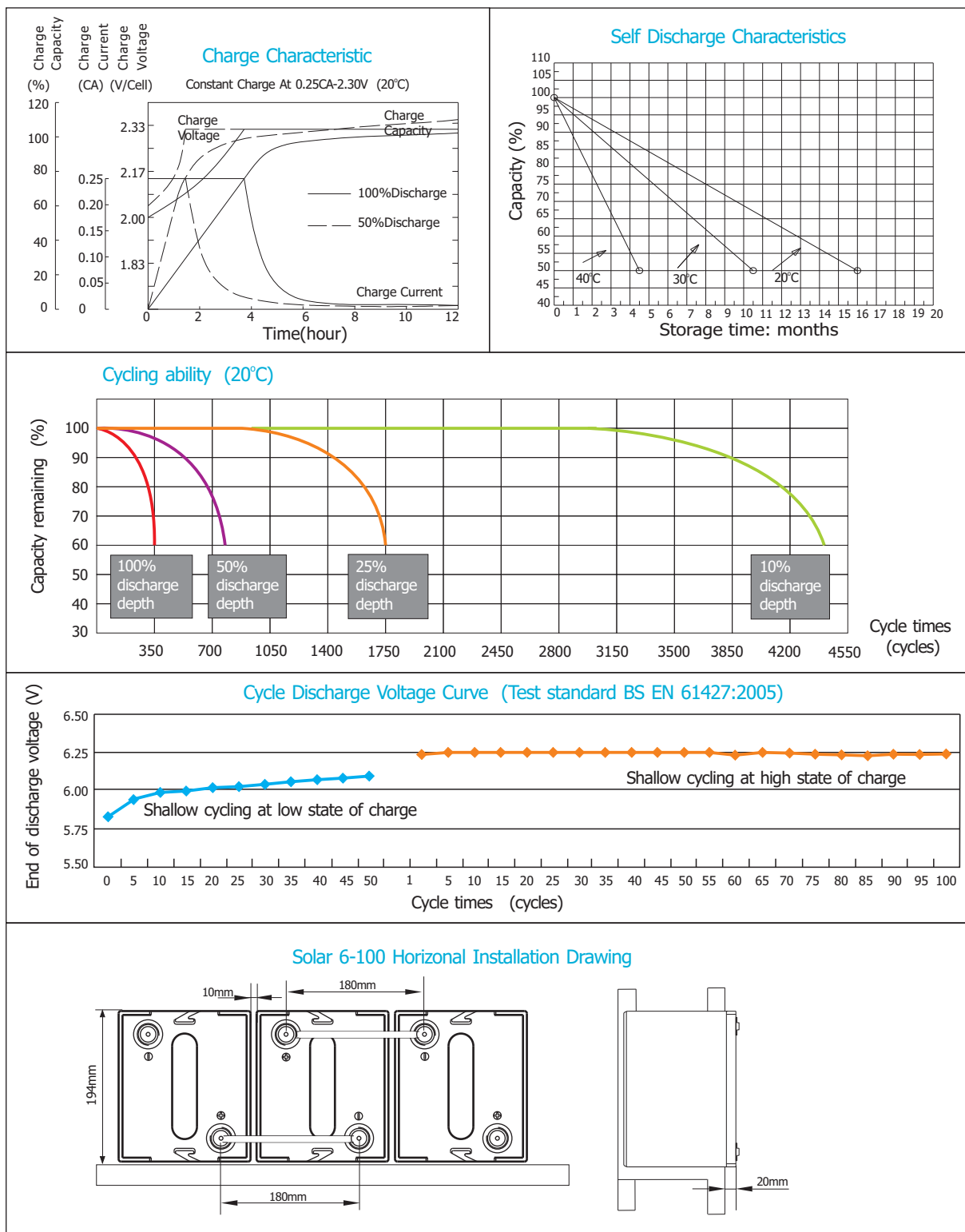


Terminal Dimensions



Battery Model	Solar 6-100			
Designed Floating Life	12 Years			
Designed Cycle Life	5 Years			
Capacity(20°C)	10HR(10A,1.80V)	24HR(4.46A,1.80V)	48HR(2.33A,1.80V)	100HR(1.2A,1.80V)
	100AH	107AH	112AH	120AH
Dimensions	Length	Width	Height	Total Height
	194mm(7.64inch)	170mm(6.69inch)	205mm(8.07inch)	210mm(8.27inch)
Approx. Weight	16.7Kg (36.8 lbs)			
Internal Resistance	Full charged at 20°C: 0.0035 Ohm			
Self Discharge	3% of capacity declined per month at (20°C)			
Capacity Affected by Temp.(20HR)	40°C	20°C	0°C	-15°C
	102%	100%	85%	65%
Charge Voltage(20°C)	Cycle use		Float use	
	7.2-7.4V(-15mV/ °C), max. Current: 25A		6.8-6.9V(-10mV/ °C)	

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Constant current discharge ratings-amperes at 20°C

TIME	1HR	3HR	5HR	10HR	24HR	48HR	72HR	100HR	120HR
CUT-OFF VOLTAGE	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80
CAPACITY(AH)	65	76	86	100	107	112	116	120	122