

## 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

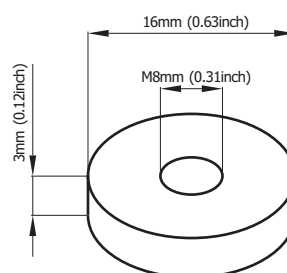
- Photovoltaic system
- Renewable Energy System
- Electric Utility
- Outdoor control Equipment
- Railroad Utility

## General Features

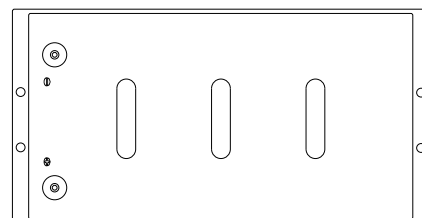
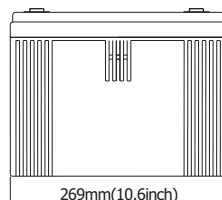
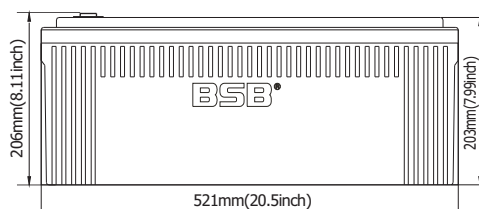
- 12 years float life at 20°C
- Up to 5 years design life at renewable energy applications
- Wide operating temperature range of -15 to 60°C
- Nano gel electrolyte eliminate the acid stratification and prolong cycle life
- Round trip efficiency as high as 85%
- Thick positive flat plate with high density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

## Construction

- Component .....Raw material
- Positive .....Lead dioxide
- Negative .....Lead
- Container .....ABS
- Cover .....ABS
- Sealant .....Epoxy Resin
- Safety valve .....EPDR
- Terminal .....Copper
- Separator .....AGM
- Electrolyte .....Hybrid Gel

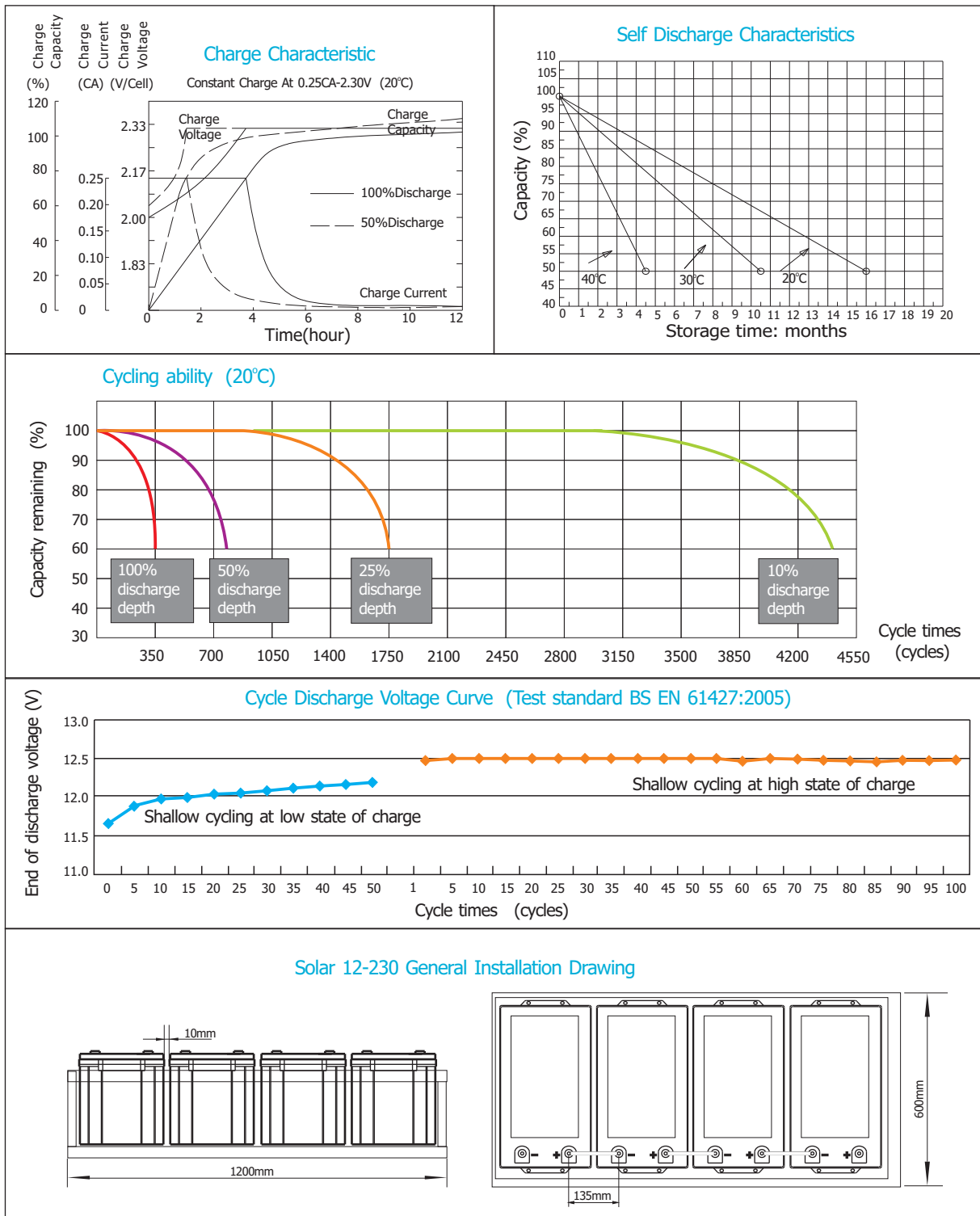


Terminal Dimensions



Battery Model	Solar 12-230			
Designed Floating Life	12 Years			
Designed Cycle Life	5 Years			
Capacity(20°C)	10HR(23A,1.80V)	24HR(10.2A,1.80V)	48HR(5.33A,1.80V)	100HR(2.75A,1.80V)
	230AH	245AH	256AH	275AH
Dimensions	Length	Width	Height	Total Height
	521mm(20.5inch)	269mm(10.6inch)	203mm(7.99inch)	206mm(8.11inch)
Approx. Weight	67Kg (148 lbs)			
Internal Resistance	Full charged at 20°C: 0.0028 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	
	14.4-14.8V(-30mV/ °C), max. Current: 57.5A		13.6-13.8V(-20mV/ °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)	145	173	198	230	245	256	265	275	278