

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

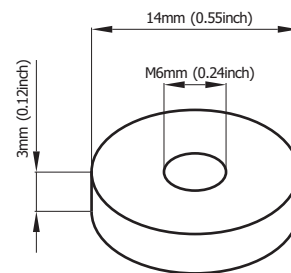
- Photovoltaic system
- Renewable Energy System
- Electric Utility
- Outdoor control Equipment
- Railroad Utility

General Features

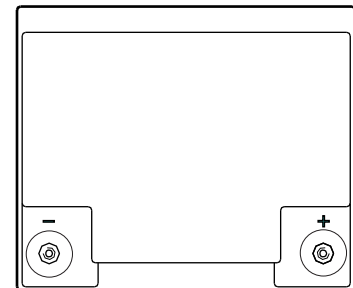
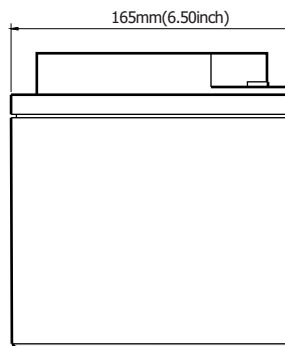
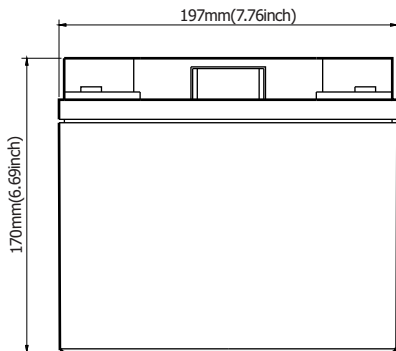
- 12 years float life at 20°C
- Up to 5 years design life at renewable energy applications
- Wide operating temperature range of -15 to 60°C
- Nano gel electrolyte eliminate the acid stratification and prolong cycle life
- Round trip efficiency as high as 85%
- Thick positive flat plate with high density 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

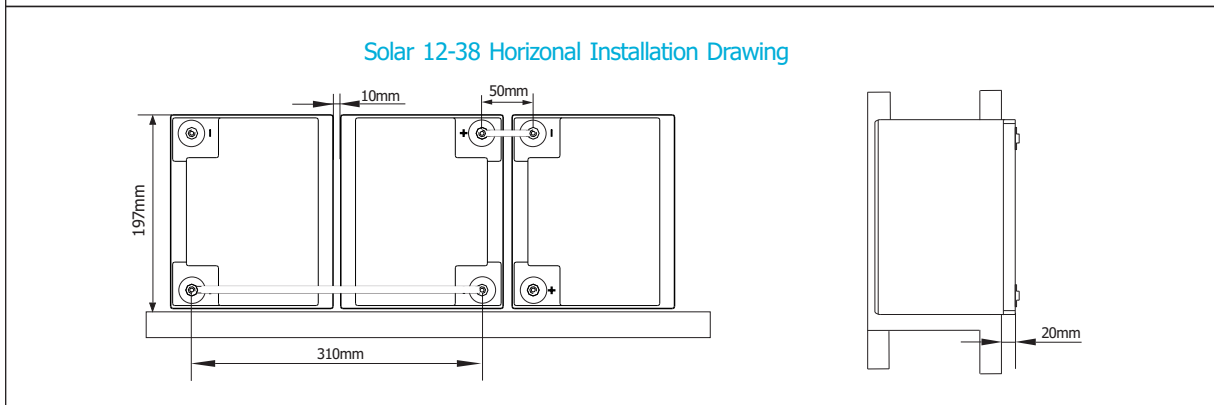
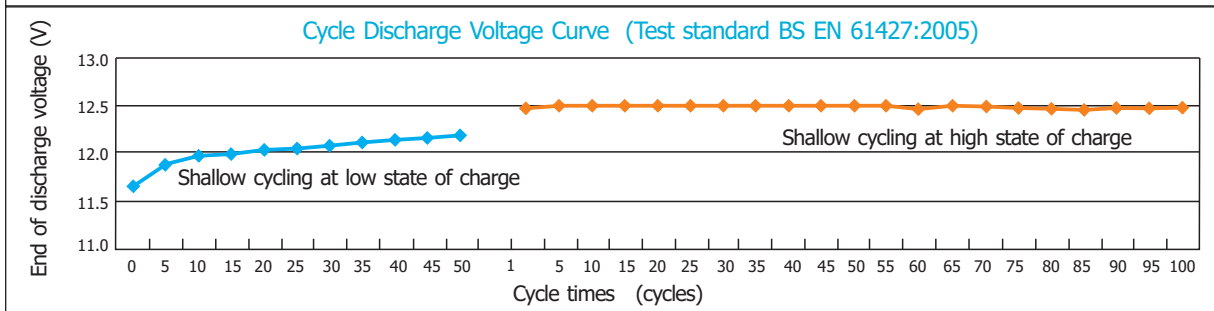
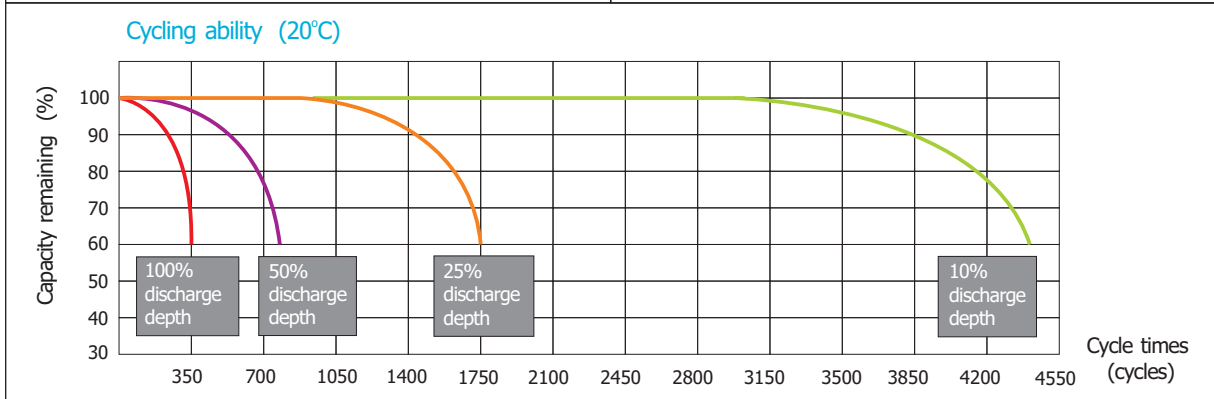
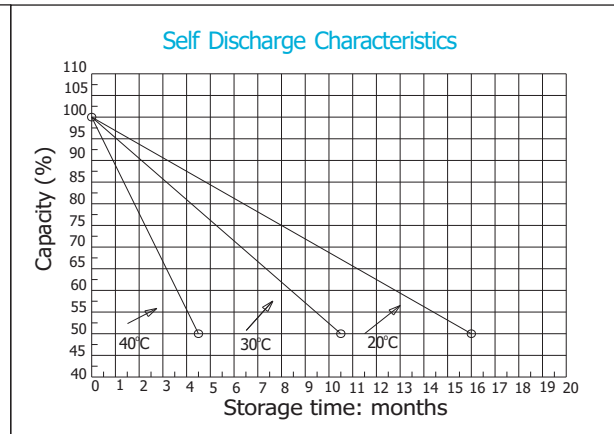
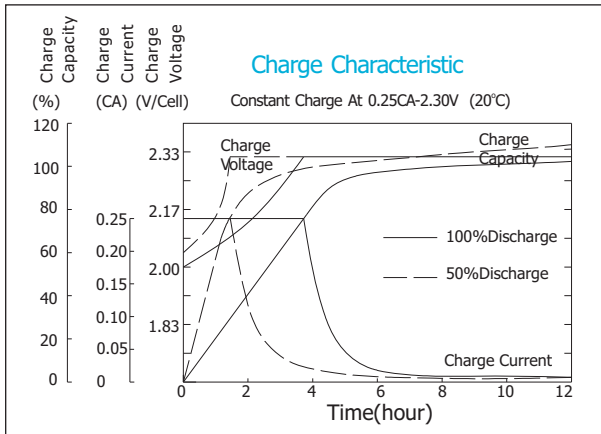


Terminal Dimensions



Battery Model	Solar 12-38			
Designed Floating Life	12 Years			
Designed Cycle Life	5 Years			
Capacity(20°C)	10HR(3.8A,1.80V)	24HR(1.67A,1.80V)	48HR(0.88A,1.80V)	100HR(0.46A,1.80V)
	38AH	40AH	42AH	46AH
Dimensions	Length	Width	Height	Total Height
	197mm(7.76inch)	165mm(6.50inch)	170mm(6.69inch)	170mm(6.69inch)
Approx. Weight	13.3Kg (29.3 lbs)			
Internal Resistance	Full charged at 20°C: 0.0095 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: 9.5A			13.6-13.8V(-20mV/ °C)

Solar Series SLA Battery



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)	24	29	33	38	40	42	44	46	47



COPYRIGHT BSB POWER COMPANY LIMITED

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

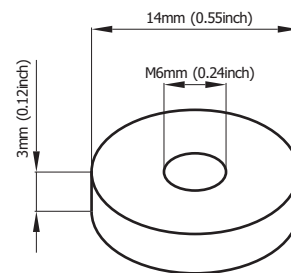
- Photovoltaic system
- Renewable Energy System
- Electric Utility
- Outdoor control Equipment
- Railroad Utility

General Features

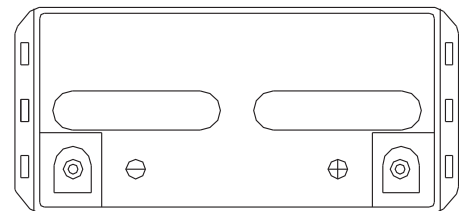
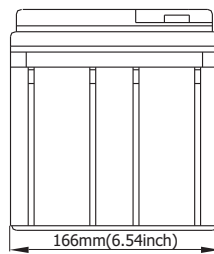
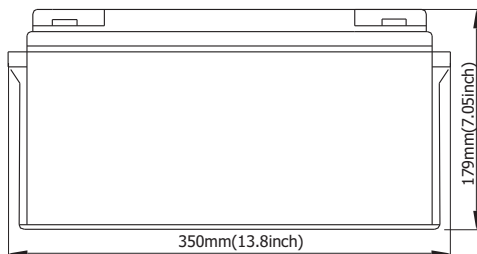
- 12 years float life at 20°C
- Up to 5 years design life at renewable energy applications
- Wide operating temperature range of -15 to 60°C
- Nano gel electrolyte eliminate the acid stratification and prolong cycle life
- Round trip efficiency as high as 85%
- Thick positive flat plate with high density 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

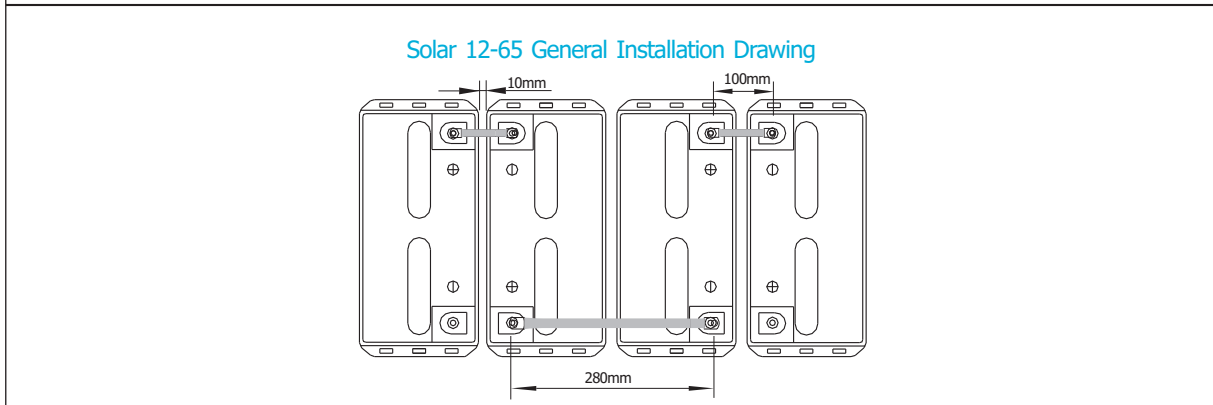
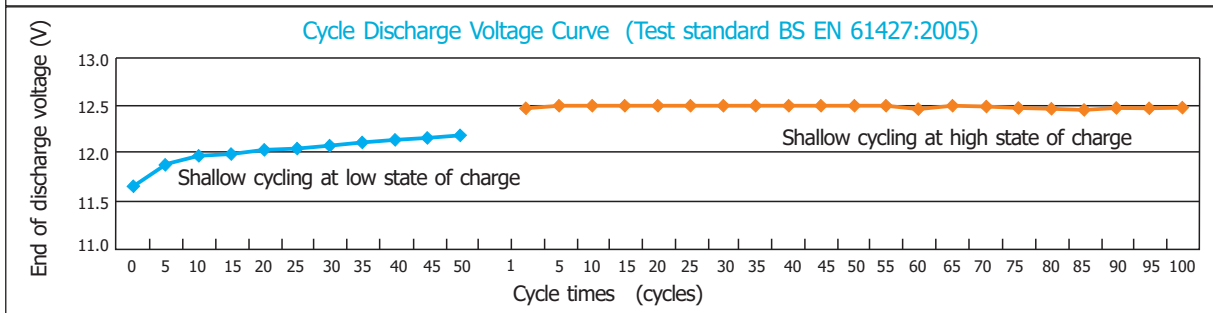
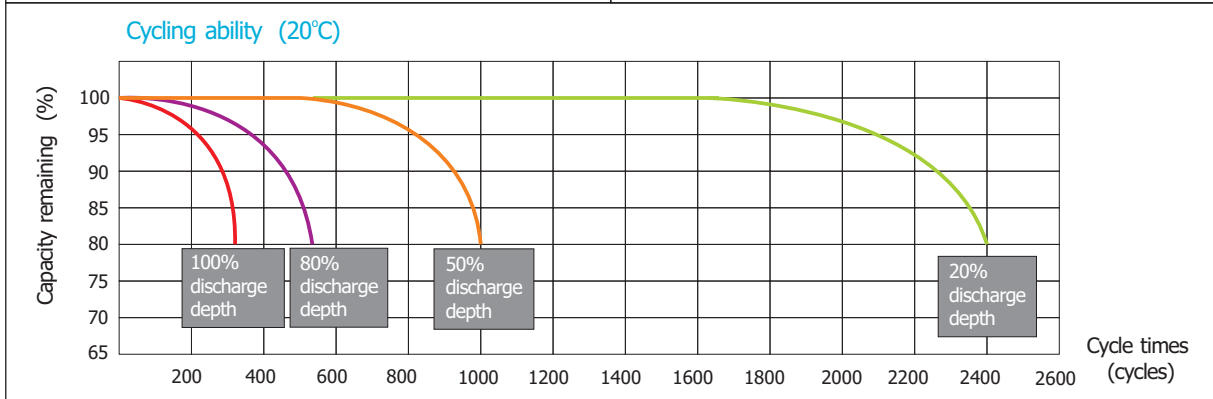
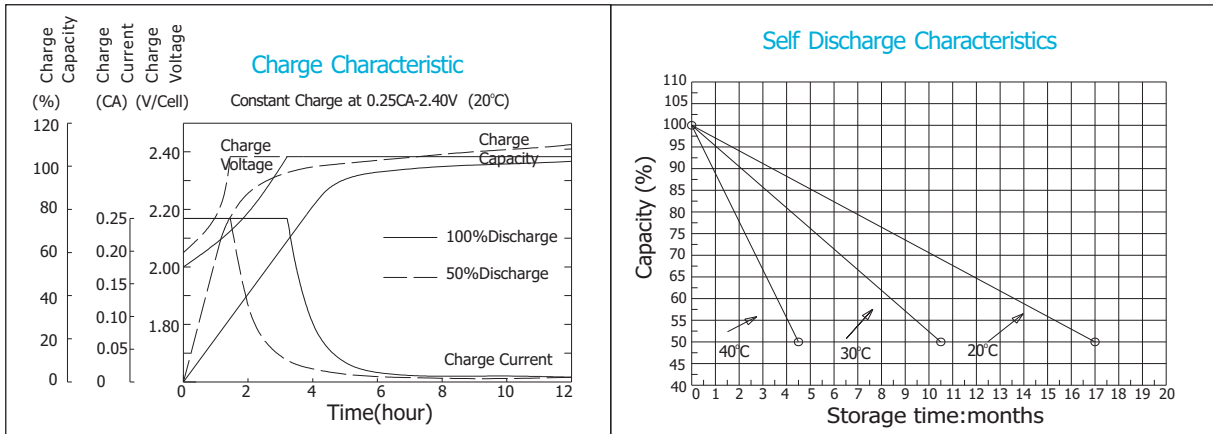


Terminal Dimensions



Battery Model	Solar 12-65			
Designed Floating Life	12 Years			
Designed Cycle Life (According to IEC61427)	5 Years			
Capacity(20°C)	10HR(6.5A,1.80V)	24HR(2.88A,1.80V)	48HR(1.52A,1.80V)	100HR(0.78A,1.80V)
	65Ah	69Ah	73Ah	78Ah
Dimensions	Length	Width	Height	Total Height
	350mm(13.8inch)	166mm(6.54inch)	179mm(7.05inch)	179mm(7.05inch)
Approx. Weight	21.2Kg (46.7 lbs)			
Internal Resistance	Full charged at 20°C: 0.006 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: 16.25A		13.6-13.8V(-18mV/ °C)	

Solar Series SLA Battery



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)	41	49	56	65	69	73	76	78	80

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

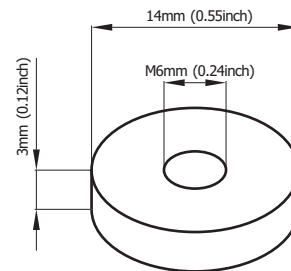
- Photovoltaic system
- Renewable Energy System
- Electric Utility
- Outdoor control Equipment
- Railroad Utility

General Features

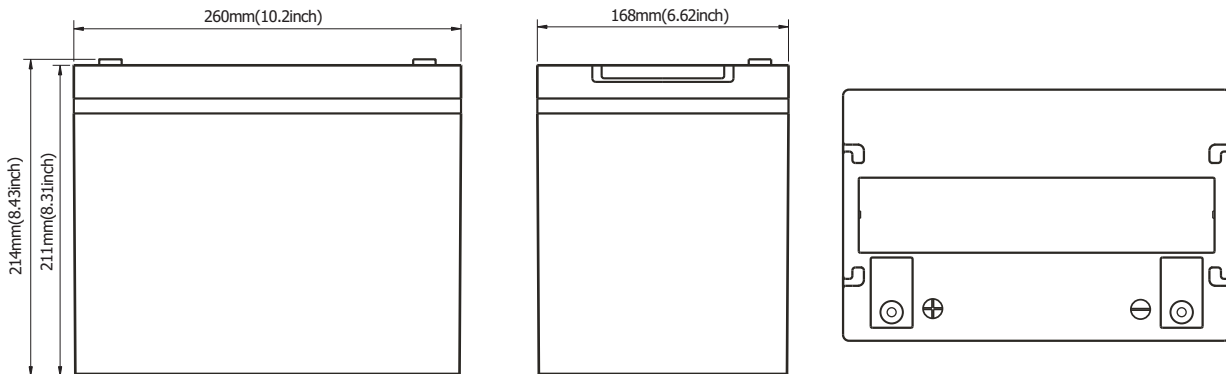
- 12 years float life at 20°C
- Up to 5 years design life at renewable energy applications
- Wide operating temperature range of -15 to 60°C
- Nano gel electrolyte eliminate the acid stratification and prolong cycle life
- Round trip efficiency as high as 85%
- Thick positive flat plate with high density 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

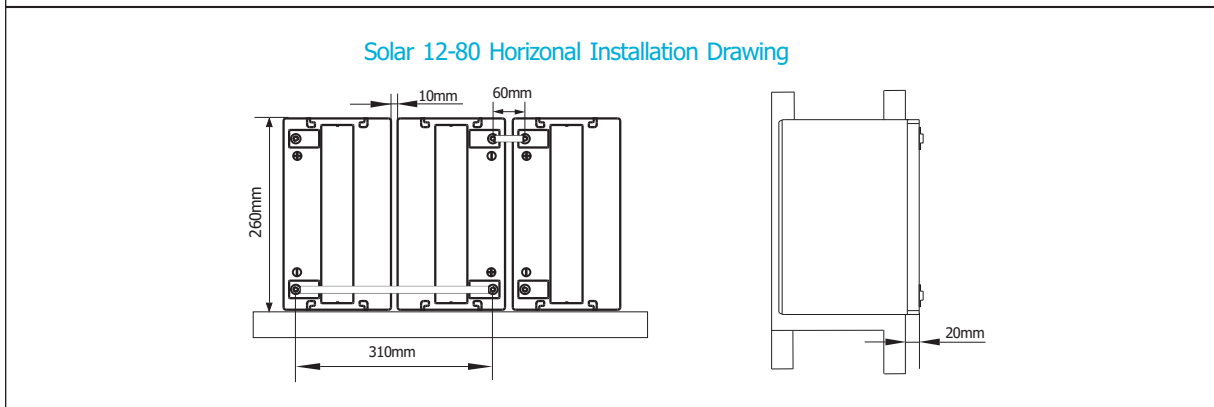
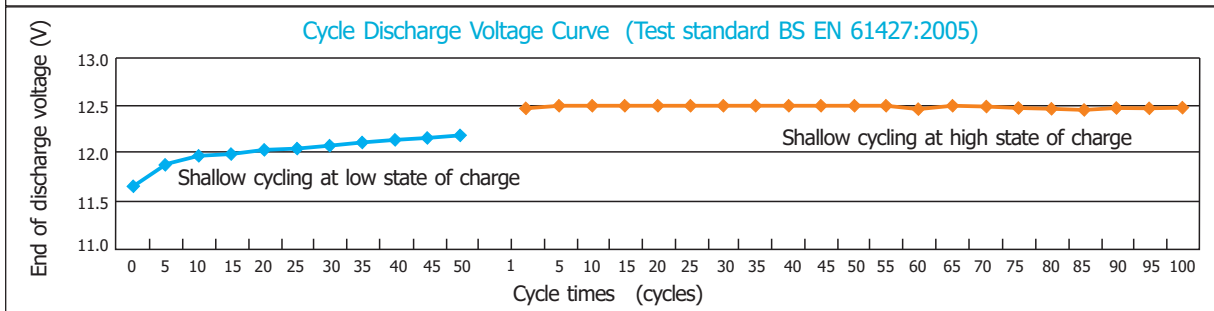
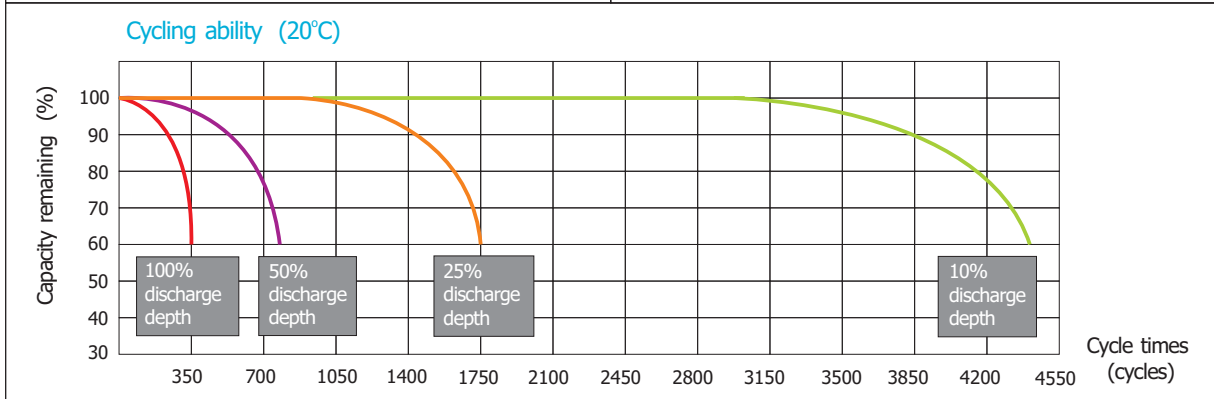
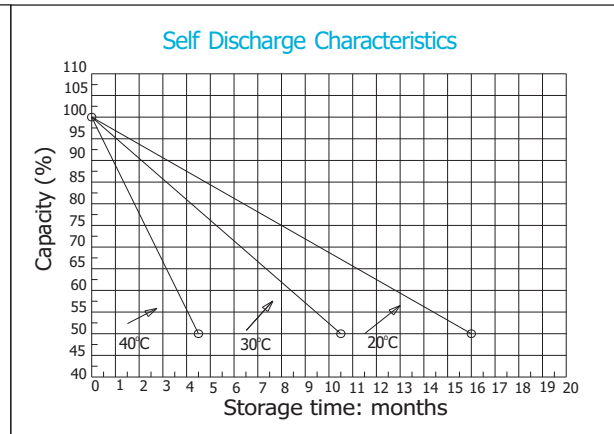
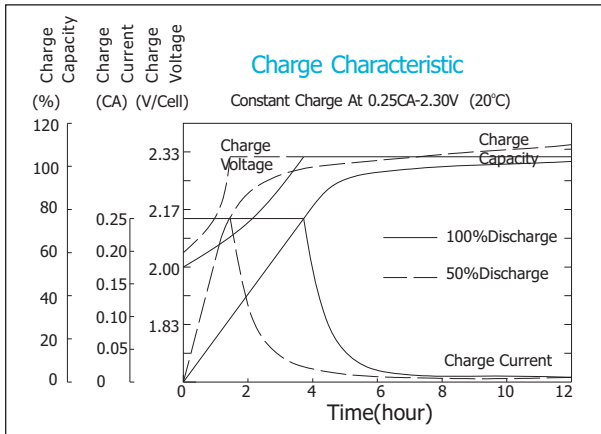


Terminal Dimensions



Battery Model	Solar 12-80			
Designed Floating Life	12 Years			
Designed Cycle Life	5 Years			
Capacity(20°C)	10HR(8A,1.80V)	24HR(4A,1.80V)	48HR(2.08A,1.80V)	100HR(1.08A,1.80V)
	80AH	85AH	89AH	96AH
Dimensions	Length	Width	Height	Total Height
	260mm(10.2inch)	168mm(6.62inch)	211mm(8.31inch)	214mm(8.43inch)
Approx. Weight	25Kg (55.1 lbs)			
Internal Resistance	Full charged at 20°C: 0.006 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: 20A		13.6-13.8V(-20mV/ °C)	

Solar Series SLA Battery



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)	50	60	68	80	85	89	93	96	98



COPYRIGHT BSB POWER COMPANY LIMITED

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

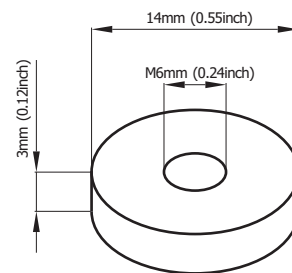
- Photovoltaic system
- Renewable Energy System
- Electric Utility
- Outdoor control Equipment
- Railroad Utility

General Features

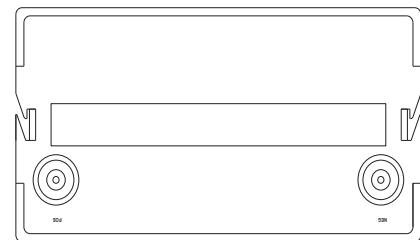
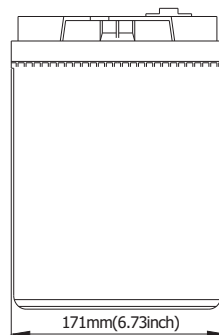
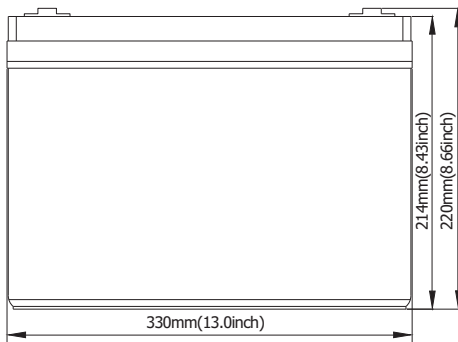
- 12 years float life at 20°C
- Up to 5 years design life at renewable energy applications
- Wide operating temperature range of -15 to 60°C
- Nano gel electrolyte eliminate the acid stratification and prolong cycle life
- Round trip efficiency as high as 85%
- Thick positive flat plate with high density 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

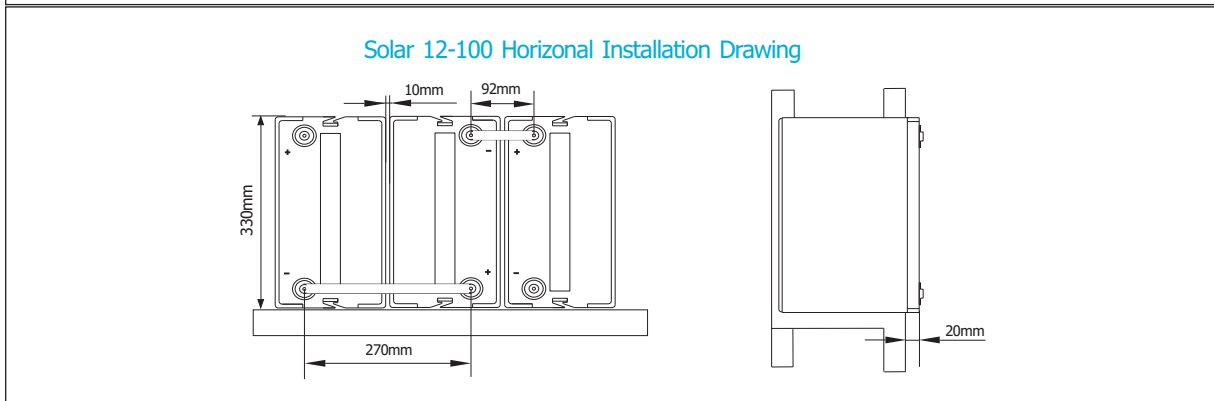
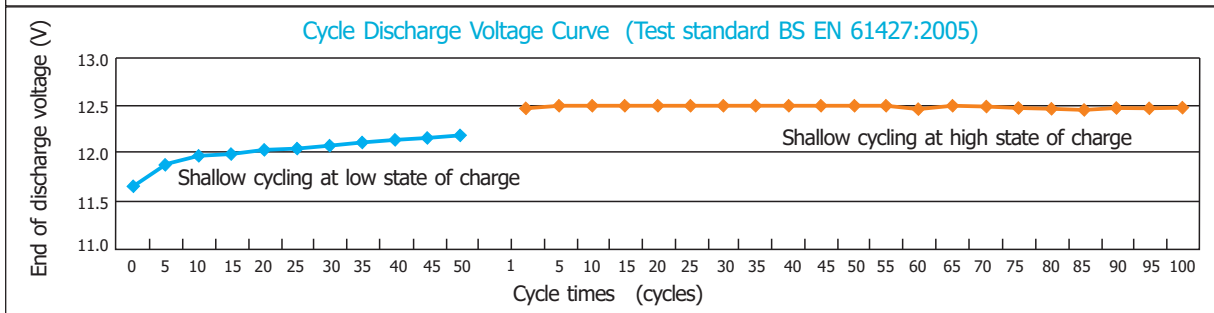
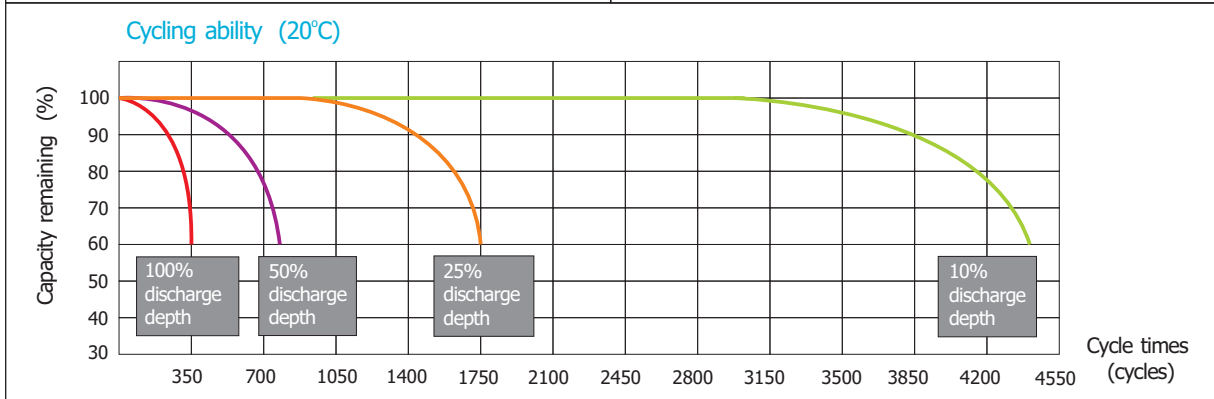
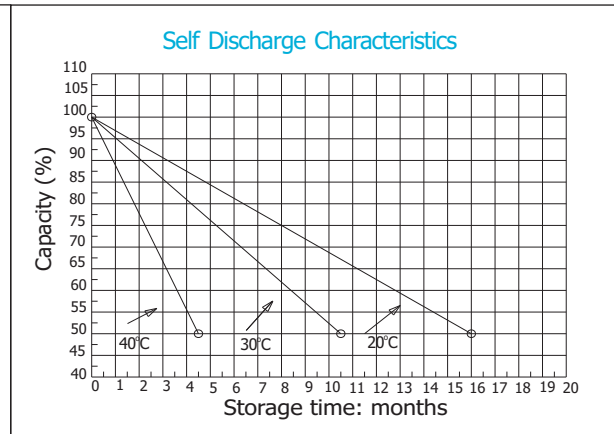
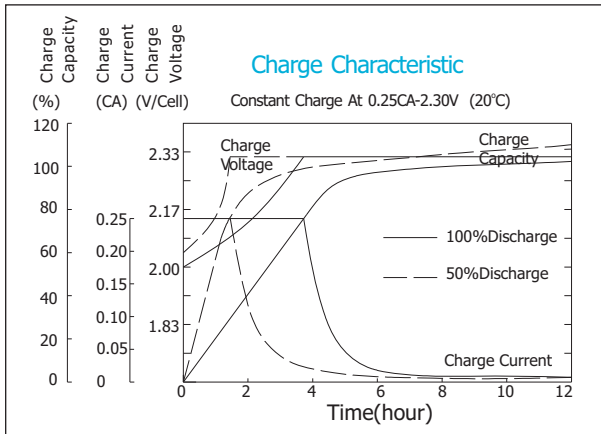


Terminal Dimensions



Battery Model	Solar 12-100			
Designed Floating Life	12 Years			
Designed Cycle Life	5 Years			
Capacity(20°C)	10HR(10A,1.80V)	24HR(4.42A,1.80V)	48HR(2.31A,1.80V)	100HR(1.2A,1.80V)
	100AH	106AH	111AH	120AH
Dimensions	Length	Width	Height	Total Height
	330mm(13.0inch)	171mm(6.73inch)	214mm(8.43inch)	220mm(8.66inch)
Approx. Weight	31Kg (68.4 lbs)			
Internal Resistance	Full charged at 20°C: 0.005 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: 25A		13.6-13.8V(-20mV/ °C)	

Solar Series SLA Battery



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	75	87	100	106	111	116	120	123



COPYRIGHT BSB POWER COMPANY LIMITED

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

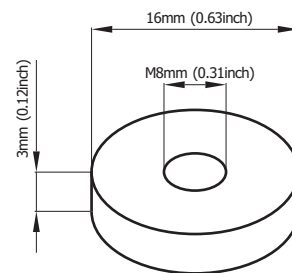
- Photovoltaic system
- Renewable Energy System
- Electric Utility
- Outdoor control Equipment
- Railroad Utility

General Features

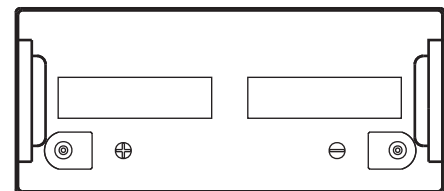
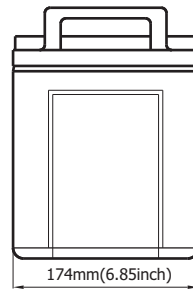
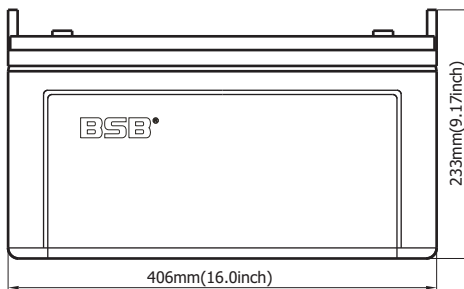
- 12 years float life at 20°C
- Up to 5 years design life at renewable energy applications
- Wide operating temperature range of -15 to 60°C
- Nano gel electrolyte eliminate the acid stratification and prolong cycle life
- Round trip efficiency as high as 85%
- Thick positive flat plate with high density 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

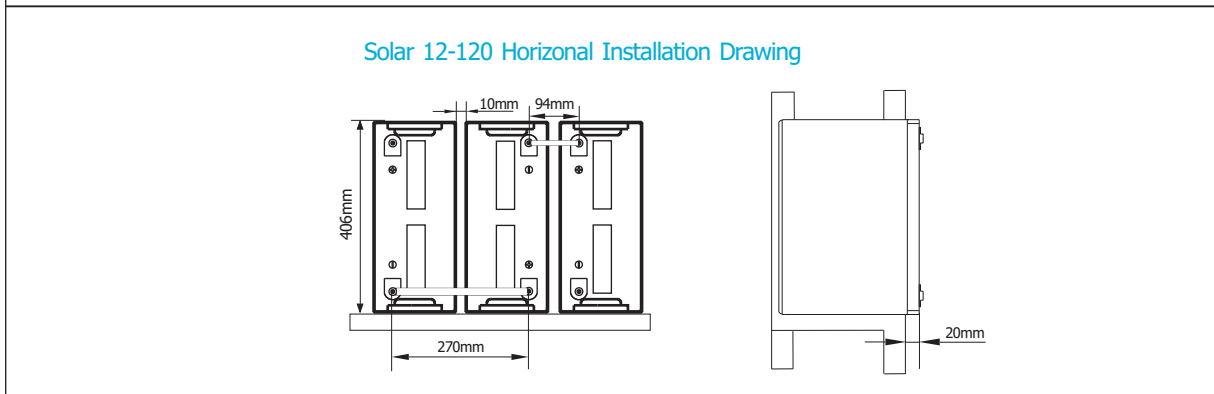
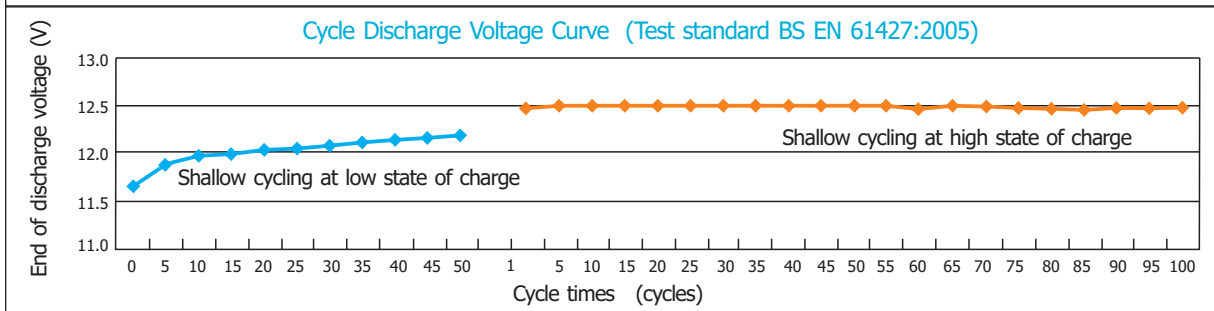
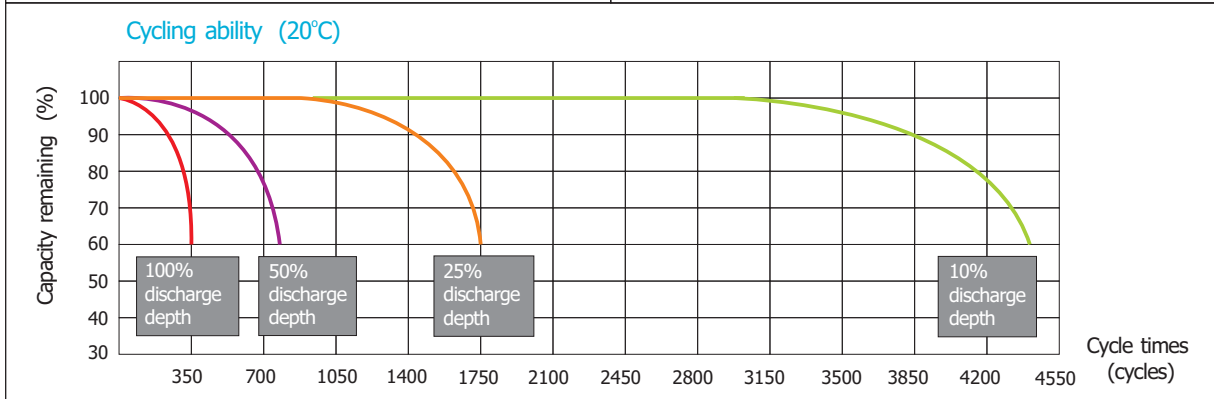
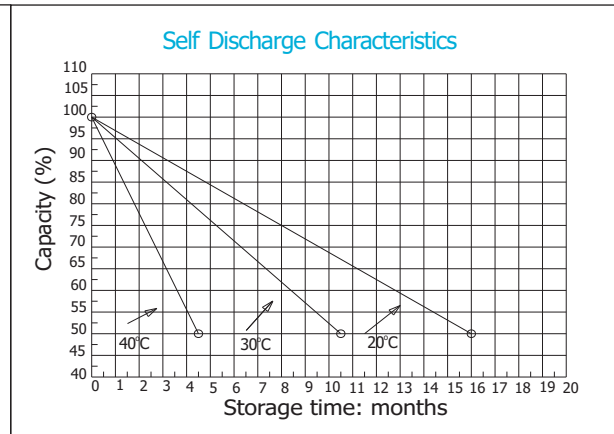
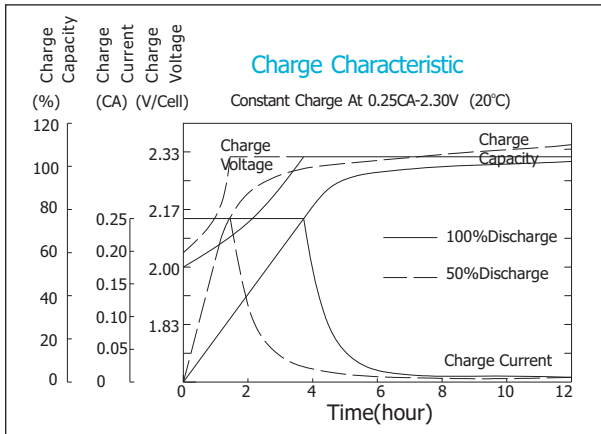


Terminal Dimensions



Battery Model	Solar 12-120			
Designed Floating Life	12 Years			
Designed Cycle Life	5 Years			
Capacity(20°C)	10HR(12A,1.80V)	24HR(5.29A,1.80V)	48HR(2.79A,1.80V)	100HR(1.45A,1.80V)
	120AH	127AH	134AH	145AH
Dimensions	Length	Width	Height	Total Height
	406mm(16.0inch)	174mm(6.85inch)	208mm(8.19inch)	233mm(9.17inch)
Approx. Weight	36Kg (79.4 lbs)			
Internal Resistance	Full charged at 20°C: 0.004 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: 30A		13.6-13.8V(-20mV/ °C)	

Solar Series SLA Battery



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)	78	90	103	120	127	134	140	145	147



COPYRIGHT BSB POWER COMPANY LIMITED

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

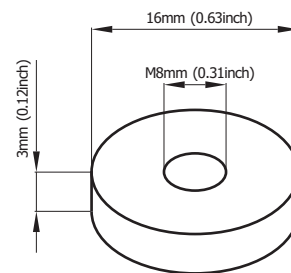
- Photovoltaic system
- Renewable Energy System
- Electric Utility
- Outdoor control Equipment
- Railroad Utility

General Features

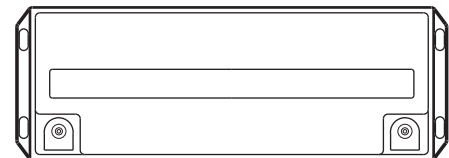
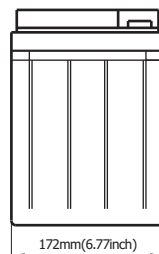
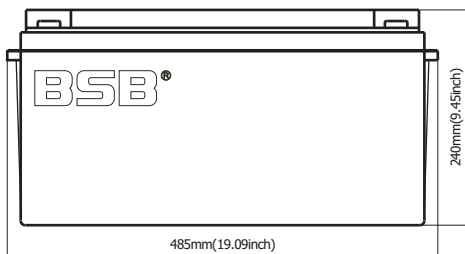
- 12 years float life at 20°C
- Up to 5 years design life at renewable energy applications
- Wide operating temperature range of -15 to 60°C
- Nano gel electrolyte eliminate the acid stratification and prolong cycle life
- Round trip efficiency as high as 85%
- Thick positive flat plate with high density 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

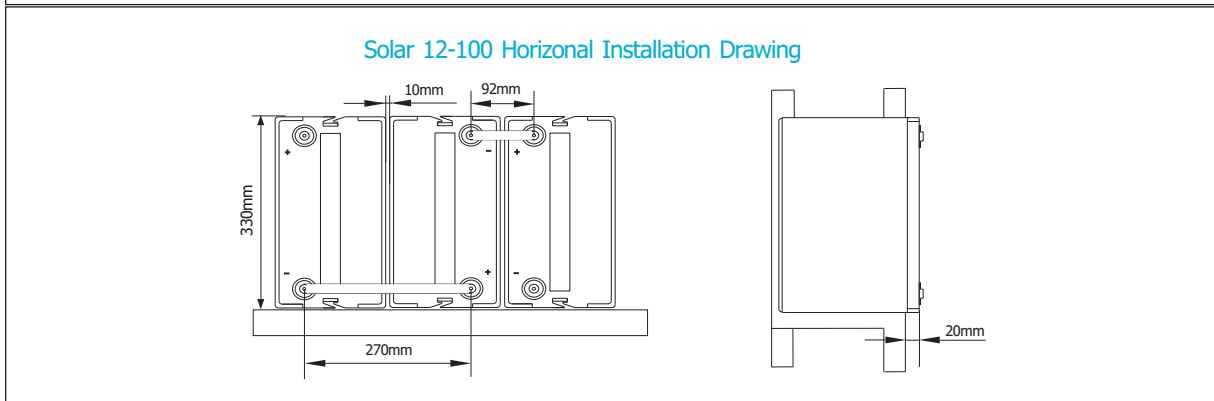
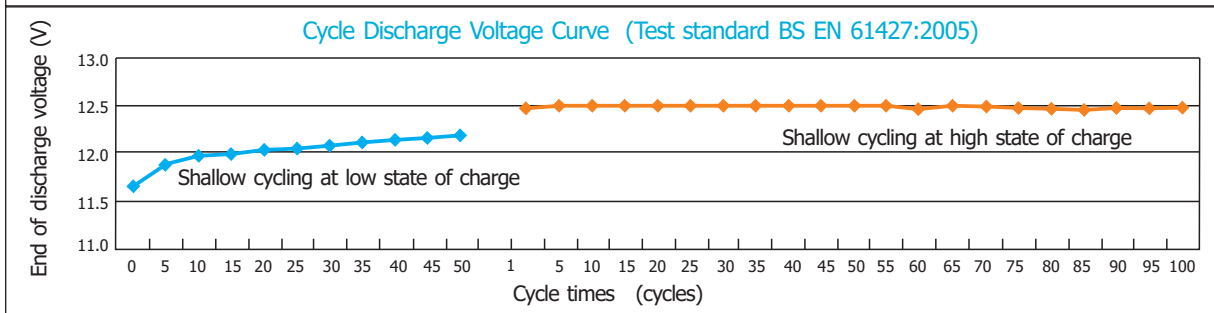
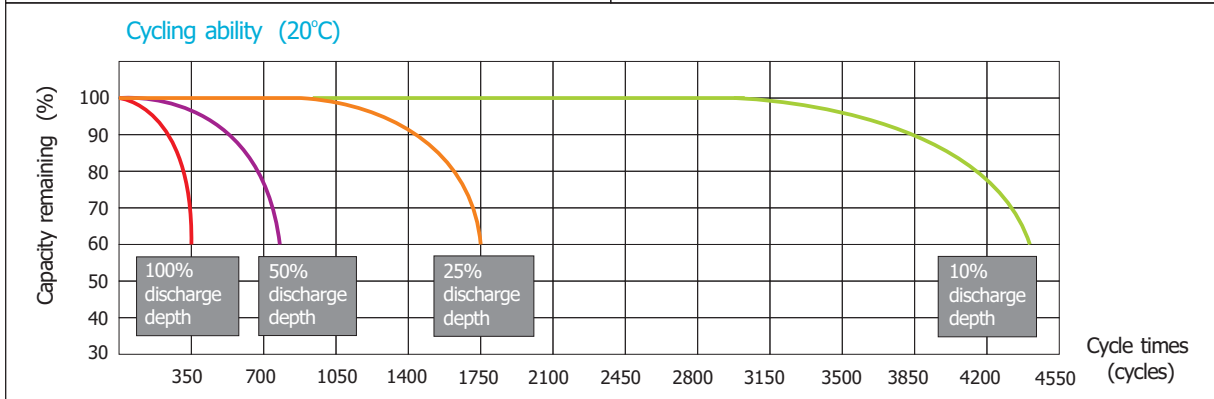
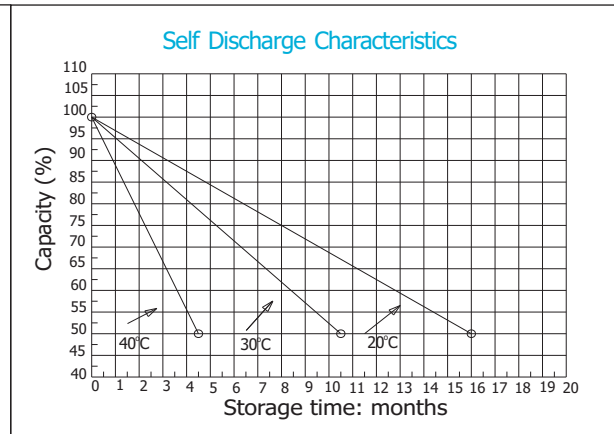
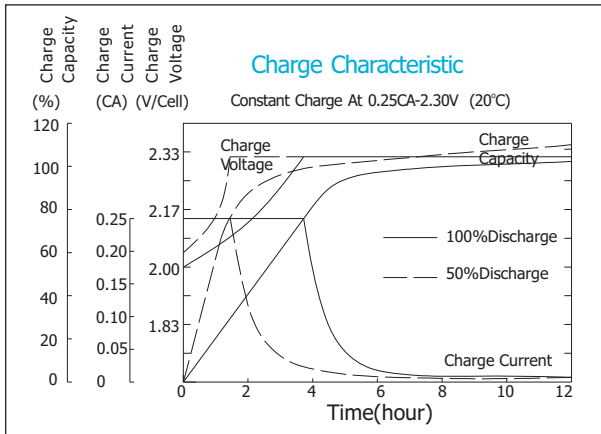


Terminal Dimensions



Battery Model	Solar 12-150			
Designed Floating Life	12 Years			
Designed Cycle Life	5 Years			
Capacity(20°C)	20HR(7.9A,1.80V)	10HR(15A,1.80V)	5HR(25.5A,1.75V)	1HR(94A,1.60V)
	158AH	150AH	127.5AH	94AH
Dimensions	Length	Width	Height	Total Height
	485mm(19.1inch)	172mm(6.77inch)	240mm(9.45inch)	240mm(9.45inch)
Approx. Weight	45Kg (99.2 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	
	14.4-14.8V(-30mV/ °C), max. Current: 37.5A		13.6-13.8V(-20mV/ °C)	

Solar Series SLA Battery



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)	96	113	129	150	159	165	172	180	182



COPYRIGHT BSB POWER COMPANY LIMITED

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

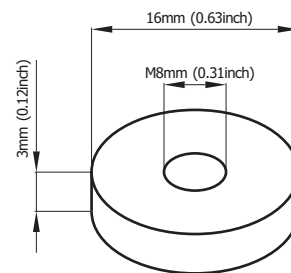
- Photovoltaic system
- Renewable Energy System
- Electric Utility
- Outdoor control Equipment
- Railroad Utility

General Features

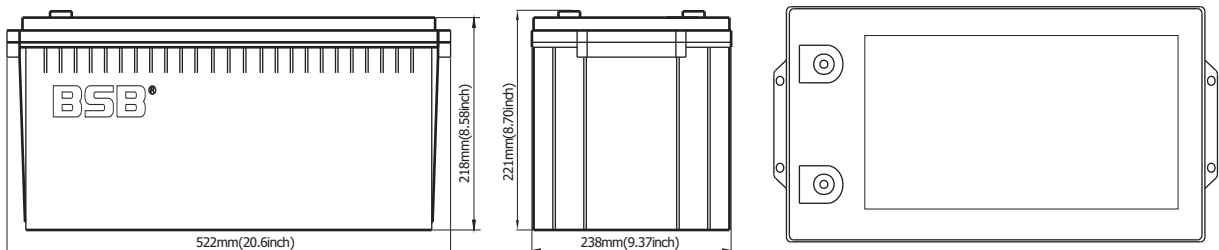
- 12 years float life at 20°C
- Up to 5 years design life at renewable energy applications
- Wide operating temperature range of -15 to 60°C
- Nano gel electrolyte eliminate the acid stratification and prolong cycle life
- Round trip efficiency as high as 85%
- Thick positive flat plate with high density 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

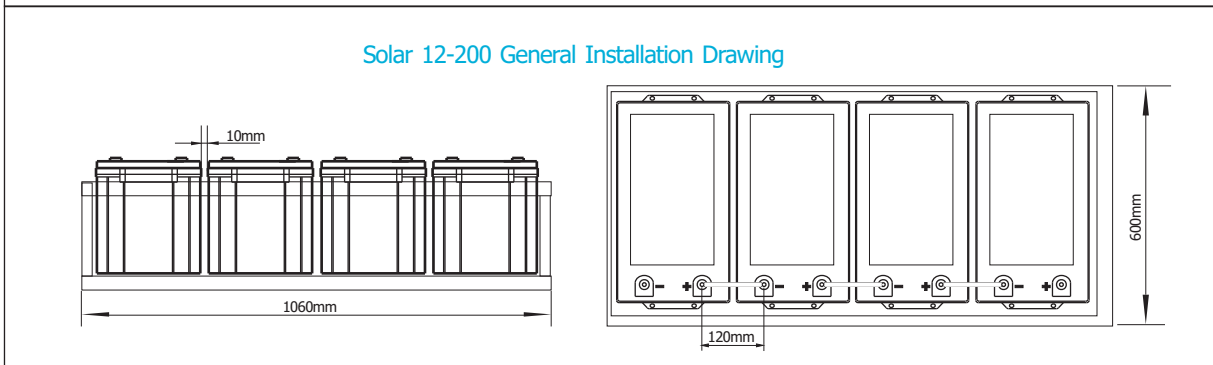
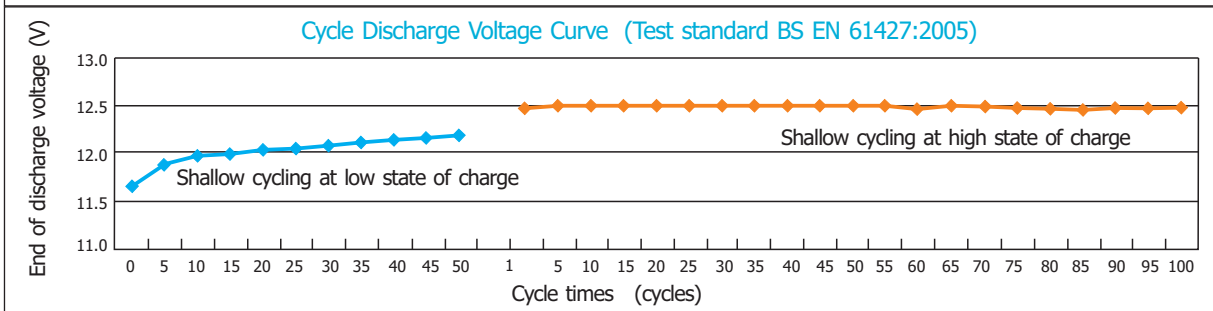
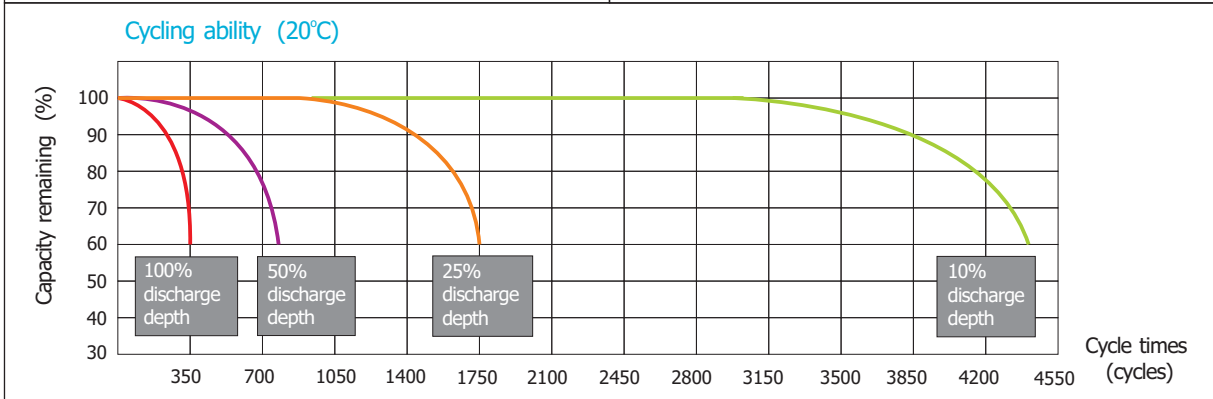
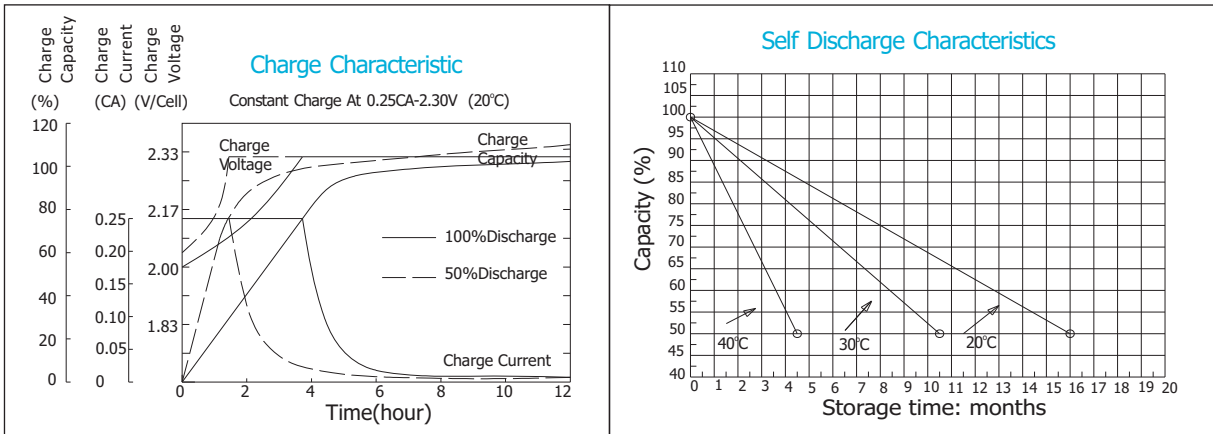


Terminal Dimensions



Battery Model	Solar 12-200			
Designed Floating Life	12 Years			
Designed Cycle Life	5 Years			
Capacity(20°C)	10HR(20A,1.80V)	24HR(8.92A,1.80V)	48HR(4.67A,1.80V)	100HR(2.4A,1.80V)
	200AH	214AH	224AH	240AH
Dimensions	Length	Width	Height	Total Height
	522mm(20.6inch)	238mm(9.37inch)	218mm(8.58inch)	221mm(8.70inch)
Approx. Weight	62Kg (137 lbs)			
Internal Resistance	Full charged at 20°C: 0.003 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: 50A		13.6-13.8V(-20mV/ °C)	

Solar Series SLA Battery



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)	130	150	171	200	214	224	233	240	243



COPYRIGHT BSB POWER COMPANY LIMITED

Cycle Life vs Depth of Discharge for Solar Series Battery

