

Valve Regulated Lead Acid Battery

HYBRID GEL DEEP CYCLE BATTERY

SOLAR Series

RANGE SUMMARY

The Solar series is designed for frequent cyclic charge and discharge applications under extreme environments. By combining the newly developed Nano Gel electrolyte with high density paste, the Solar range offers high recharge efficiency at very low charge current. The acid stratification is highly reduced by adding Nano Gel.

This series is suited for energy storage for renewable energies such as PV, wind turbine power systems and CATV.

FEATURES AND BENEFITS

- 12 years in floating condition
- Up to 5 years design life at renewable energy applications according to IEC61427
- Wide operating temperature range from -15°C 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 design with high Tin low Calcium alloy and high density paste
- Low self-discharge rate and long shelf life (9 months at 20°C)
- Excellent deep discharge recovery capability

CONSTRUCTION

- Positive plate : Thick high Sn low Ca grid with high density paste
- Negative plate : Over designed capacity to overcome sulphation in low SOC
- Separator : Advanced AGM separator
- Electrolyte : Dilute high purity sulphuric acid with nano gel
- Battery container and cover : ABS
- Pillar seal : 100% factory tested, proven two layers epoxy resin seal
- Relief valve : Complete with integrated flame arrestor

CHARGING VOLTAGE AND SETTINGS

- Constant voltage charging is recommended
- Recommended float charge voltage: 2.27Vpc @20~25°C
- Float voltage temperature compensation: -3mV/°C/cell
- Float voltage range: 2.27 to 2.30 Vpc @ 20~25°C
- Cyclic application charge voltage : 2.40 to 2.47 Vpc @ 20~25°C
- Max. charge current allowable : 0.25C10A



Capacity Range: 7Ah-250Ah

General Specifications



Code No.	Voltage (V)	Capacity (AH)	Dimension								Weight		Terminal Type	
			Length		Width		Height		Total Height		Kg	Lb		
			mm	in	mm	in	mm	in	mm	in	mm	in		
SOLAR6-100	6	100	194	7.64	170	6.69	205	8.07	210	8.27	16.5	36.4	T17	
SOLAR6-150	6	150	260	10.2	180	7.09	245	9.65	250	9.84	25.0	55.1	T19	
SOLAR6-200	6	200	321	12.6	176	6.93	226	8.90	229	9.02	31.0	68.3	T19	
SOLAR12-7	12	7	151	5.94	65	2.56	95	3.74	101	3.98	2.63	5.80	F2	
SOLAR12-24	12	24	175	6.89	166	6.54	125	4.92	125	4.92	8.1	17.9	T17	
SOLAR12-38	12	38	197	7.76	165	6.50	170	6.69	170	6.69	13.3	29.3	T17	
SOLAR12-65	12	65	350	13.8	166	6.54	179	7.05	179	7.05	21.5	47.4	T17	
SOLAR12-70	12	70	260	10.2	168	6.62	211	8.31	214	8.43	24.0	52.9	T17	
SOLAR12-80	12	80	260	10.2	168	6.62	211	8.31	214	8.43	24.0	52.9	T17	
SOLAR12-100	12	100	330	13.0	171	6.73	214	8.43	220	8.66	31.5	69.4	T17	
SOLAR12-120	12	120	406	16.0	174	6.85	208	8.19	233	9.17	37.5	82.7	T19	
SOLAR12-150	12	150	485	19.1	172	6.77	240	9.45	240	9.45	46.0	101	T19	
SOLAR12-200	12	200	522	20.6	238	9.37	218	8.58	221	8.70	64.0	141	T19	
SOLAR12-250	12	250	521	20.5	269	10.6	220	8.66	223	8.78	73.0	161	T19	

Applications

- Photovoltaic system
- Hybrid power system
- Renewable energy system
- Power storage for rural area

Complied Standards

- IEC 60896-21/22
- IEC 61427
- Eurobat guide, long life
- BS6290 part 4
- GB/T 22473
- UL1989
- IATA and IMDG

For more information and for the complete list of models, please visit our website: www.bsbpower.com or send an email to enquiry@bsbpower.com

Products specifications described herein are subject to change without prior notification.

Notes

Available Series

- OPzV Series
- OPzS Series
- FAG Series
- FA Series
- TGF Series
- TG Series
- Solar Series
- LSG Series
- LSE Series
- HR Series
- DC Series
- DB Series
- GB Series

Headquarters and subsidiaries

- BSB Power Company Limited (HQ)
- BSB Power Europe (France)
- BSB Power Malaysia Sdn. Bhd
- PT. BSB Indonesia
- BSB Power (Thailand) Co., Ltd
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CT-JY-MKT-N-A06