

Valve Regulated Lead Acid Battery

HYBRID GEL DEEP CYCLE BATTERY

SOLAR Series

RANGE SUMMARY

By combining the newly developed Nano Gel electrolyte with high density paste, BSB created an innovative range of Solar batteries. This series offers high recharge efficiency at very low charge current. The acid stratification is highly reduced by adding Nano Gel. The Solar series is highly suited for renewable energies such as PV and wind turbine power systems.

FEATURES AND BENEFITS

- 12 years float life at 20°C
- 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 25°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 SETTING

- Constant voltage charging is recommended
- Recommended float charge voltage:
2.27Vpc @20°C
- Float voltage temperature compensation:
-3mV/°C/cell
- Float voltage range: 2.25 to 2.30 Vpc @ 20°C
- Cyclic application charge voltage :
2.40 to 2.46 Vpc @ 20°C
- Max. charge current allowable : 0.25C_{10A}



Capacity Range: 24Ah-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			
SOLAR6-100	6	100	194	7.64	170	6.69	205	8.07	210	8.27	16	35.3	T17
SOLAR6-150	6	150	260	10.2	180	7.09	245	9.65	250	9.84	22	48.5	T19
SOLAR6-200	6	200	321	12.6	176	6.93	226	8.90	229	9.02	30	66.2	T19
SOLAR12-24	12	24	175	6.89	166	6.54	125	4.92	125	4.92	8.1	17.9	T23
SOLAR12-38	12	38	197	7.76	165	6.50	170	6.69	170	6.69	13.2	29.1	T17
SOLAR12-50	12	50	230	9.04	138	5.44	208	8.19	211	8.31	17	37.5	T17
SOLAR12-65	12	65	350	13.8	166	6.54	179	7.05	179	7.05	21.2	46.7	T17
SOLAR12-70	12	70	260	10.2	168	6.62	211	8.31	214	8.43	23	50.7	T17
SOLAR12-80	12	70	260	10.2	168	6.62	211	8.31	214	8.43	23.2	51.2	T17
SOLAR12-90	12	90	306	12.0	169	6.65	211	8.31	214	8.43	26.3	58.0	T17
SOLAR12-100	12	100	330	13.0	171	6.73	214	8.43	220	8.66	31	68.4	T17
SOLAR12-120	12	120	406	16.0	174	6.85	208	8.19	233	9.17	36	79.4	T19
SOLAR12-150	12	150	485	19.1	172	6.77	240	9.45	240	9.45	44.5	98.1	T19
SOLAR12-200	12	200	522	20.6	238	9.37	218	8.58	221	8.70	64	141	T19
SOLAR12-250	12	250	521	20.5	269	10.6	220	8.66	223	8.78	73	161	T19

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.

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
- UL1989
- IATA and IMDG

Available Series

- General Series
- Duration Series
- Deep Cycle Series
- High Rate Series
- Solar Series
- FA Series
- FAG Series
- LSE Series
- LSG Series
- OPzV Series
- OPzS Series
- TGF Series

Notes

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
- BSB Power Company Pakistan Ltd



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