

# 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

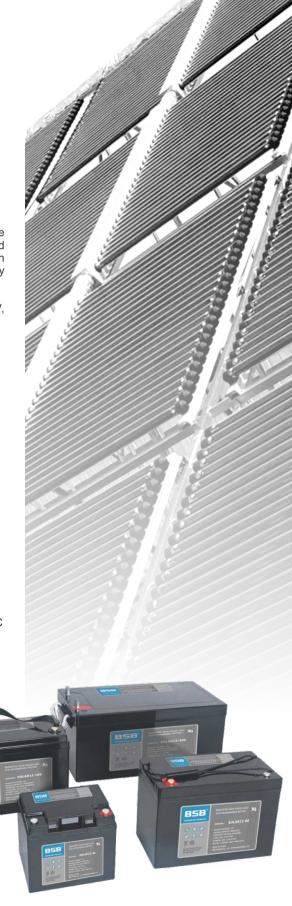
- 12 years in floating condition
- Up to 5 years design life at renewable energy applications according to IEC61427
- Wide operating temperature range from -15°C to 60°C
- Nano gel electrolyte eliminate the acid stratification and prolong cycle life
- Round trip efficiency as high as 85%.
- Thick positive 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



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# Capacity Range: 7Ah-250Ah

# General **Specifications**

# **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

Code No.	Voltage	Capacity (AH)	Dimension						Waight		Terminal		
	(V)		Length		Width		Height		Total Height		Weight		
	. ,	, ,	mm	in	mm	in	mm	in	mm	in	Kg	Lb	Type
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	3 12	38	197	7.76	165	6.50	170	6.69	170	6.69	13.3	29.3	T17
SOLAR12-65	5 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
SOLAR12-10	00 12	100	330	13.0	171	6.73	214	8.43	220	8.66	31.5	69.4	T17
SOLAR12-12	20 12	120	406	16.0	174	6.85	208	8.19	233	9.17	37.5	82.7	T19
SOLAR12-15	50 12	150	485	19.1	172	6.77	240	9.45	240	9.45	46.0	101	T19
SOLAR12-20	00 12	200	522	20.6	238	9.37	218	8.58	221	8.70	64.0	141	T19
SOLAR12-25	50 12	250	521	20.5	269	10.6	220	8.66	223	8.78	73.0	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.

### **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

#### **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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