

# BSB®

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### Valve Regulated Lead Acid Battery

## 2V TUBULAR GEL BATTERY

## OPzV Series

### RANGE SUMMARY

OPzV series adopts immobilized Gel and Tubular Positive Plate technology. It offers high reliability and stable performance. By using die-casted positive grid and patented active material formula, it exceeds the DIN standard values and offer 20+ years design life in float service.

It is very suitable for cyclic use under extreme operating conditions. This series is recommended for telecom outdoor applications, renewable energy systems and other harsh environment applications.

### FEATURES AND BENEFITS

- 20+ years design life at floating condition
- Wide operating temperature range from -20°C to 60°C
- Tubular positive plate with prolonged cycle life
- Nano Silica gel electrolyte
- Lead Calcium die cast grid with improved corrosion resistance capability
- Low self-discharge rate and long shelf life (1 year at 20°C)
- Excellent deep discharge recovery capability

### CONSTRUCTION

- Positive plate : Tubular plate with die cast Pb-Sb alloy grid
- Negative plate : Balanced Pb-Ca grid for improved recombination efficiency
- Separator : leaf shape polymer separator
- Electrolyte : Dilute high purity sulphuric acid with fumed Silica 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: 2.25Vpc @ 20~25°C
- Float voltage temperature compensation: -3mV/°C/cell
- Float voltage range: 2.25 to 2.29 Vpc @ 20~25°C
- Cyclic application charge voltage : 2.35 to 2.40Vpc @ 20~25°C
- Max. charge current allowable : 0.20C10A





## Capacity Range: 100Ah-3000Ah

### General Specifications



Code No.	Voltage (V)	Capacity (AH)	Dimension						Total Height		Weight		Terminal Type
			Length		Width		Height		mm	in	Kg	Lb	
OPzV2-100	2	100	103	4.06	206	8.11	354	13.9	390	15.4	11.9	26.2	T22
OPzV2-150	2	150	103	4.06	206	8.11	354	13.9	390	15.4	15.4	32.4	T22
OPzV2-200	2	200	103	4.06	206	8.11	354	13.9	390	15.4	16.3	33.9	T22
OPzV2-250	2	250	124	4.88	206	8.11	354	13.9	390	15.4	20.3	44.7	T22
OPzV2-300	2	300	145	5.71	206	8.11	354	13.9	390	15.4	24.4	53.7	T22
OPzV2-350	2	350	124	4.88	206	8.11	471	18.5	506	19.9	28.5	62.8	T22
OPzV2-420	2	420	145	5.71	206	8.11	471	18.5	506	19.9	32.5	71.6	T22
OPzV2-500	2	500	166	6.54	206	8.11	471	18.5	506	19.9	37.3	82.2	T22
OPzV2-600	2	600	145	5.71	206	8.11	646	25.4	681	26.8	44.2	97.4	T22
OPzV2-700	2	700	254	10.0	210	8.27	471	18.5	506	19.9	51.0	112	T22
OPzV2-800	2	800	191	7.52	210	8.27	646	25.4	681	26.8	60.0	132	T22
OPzV2-1000	2	1000	233	9.17	210	8.27	646	25.4	681	26.8	73.2	161	T22
OPzV2-1200	2	1200	275	10.8	210	8.27	646	25.4	681	26.8	84.0	185	T22
OPzV2-1500	2	1500	275	10.8	210	8.27	796	31.3	831	32.7	105	231	T22
OPzV2-2000	2	2000	399	15.7	212	8.35	772	30.4	807	31.8	145	320	T22
OPzV2-2500	2	2500	487	19.2	212	8.35	772	30.4	807	31.8	185	408	T22
OPzV2-3000	2	3000	576	22.7	212	8.35	772	30.4	807	31.8	220	485	T22

### Applications

- Telecommunications
- UPS
- Data center
- Solar and wind energy system
- Power Utility

### Complied Standards

- IEC 60896-21/22
- DIN40742
- IEC61427
- YD/T1360
- Eurobat guide, long life
- BS6290 part 4
- UL1989
- IATA and IMDG

### 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

For more information and for the complete list of models, please visit our website: [www.bsbpower.com](http://www.bsbpower.com) or send an email to [enquiry@bsbpower.com](mailto:enquiry@bsbpower.com)

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

### Notes

مهندسين مشاور امواج تیتیس (سهامی خاص)

### 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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