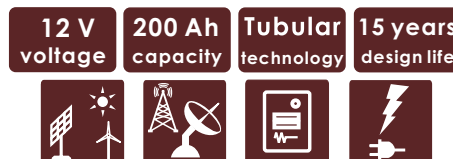


## TUBULAR GEL SERIES VRLA BATTERY

### TG SERIES

BSB TG batteries are designed to meet the requirements of heavy duty applications in high temperature. This series is highly suited for renewable energy and telecommunication systems where reliability and performance are the priorities.

The TG batteries benefit from an optimized tubular plates and gelled electrolyte which offer both a longer float life and deep cycle life. Because of the compact design, this series can be easily installed in any environment and is maintenance free.



### GENERAL FEATURES

- Sealed and maintenance free operation.
- Non-Spillable construction design.
- ABS containers and covers(UL94 V0, optional).
- Safety valve installation for explosion proof.
- High quality and high reliability.
- Super long service life.
- Lowest self discharge characteristic.
- Super reliability.

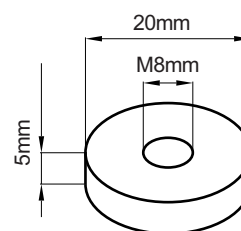
### CONSTRUCTION

- Positive ..... Lead dioxide
- Negative ..... Lead
- Container ..... ABS
- Cover ..... ABS
- Sealant ..... Epoxy Resin
- Safety valve ..... EPDM
- Terminal ..... Copper
- Electrolyte ..... Nano gel

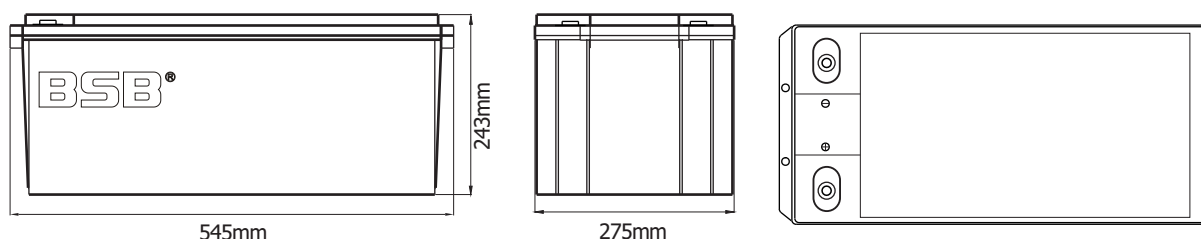
### COMPLIED STANDARDS

- IEC 60896-21/22
- IEC 61427
- UL1989
- BS6290 Part 4

### TERMINAL DIMENSIONS



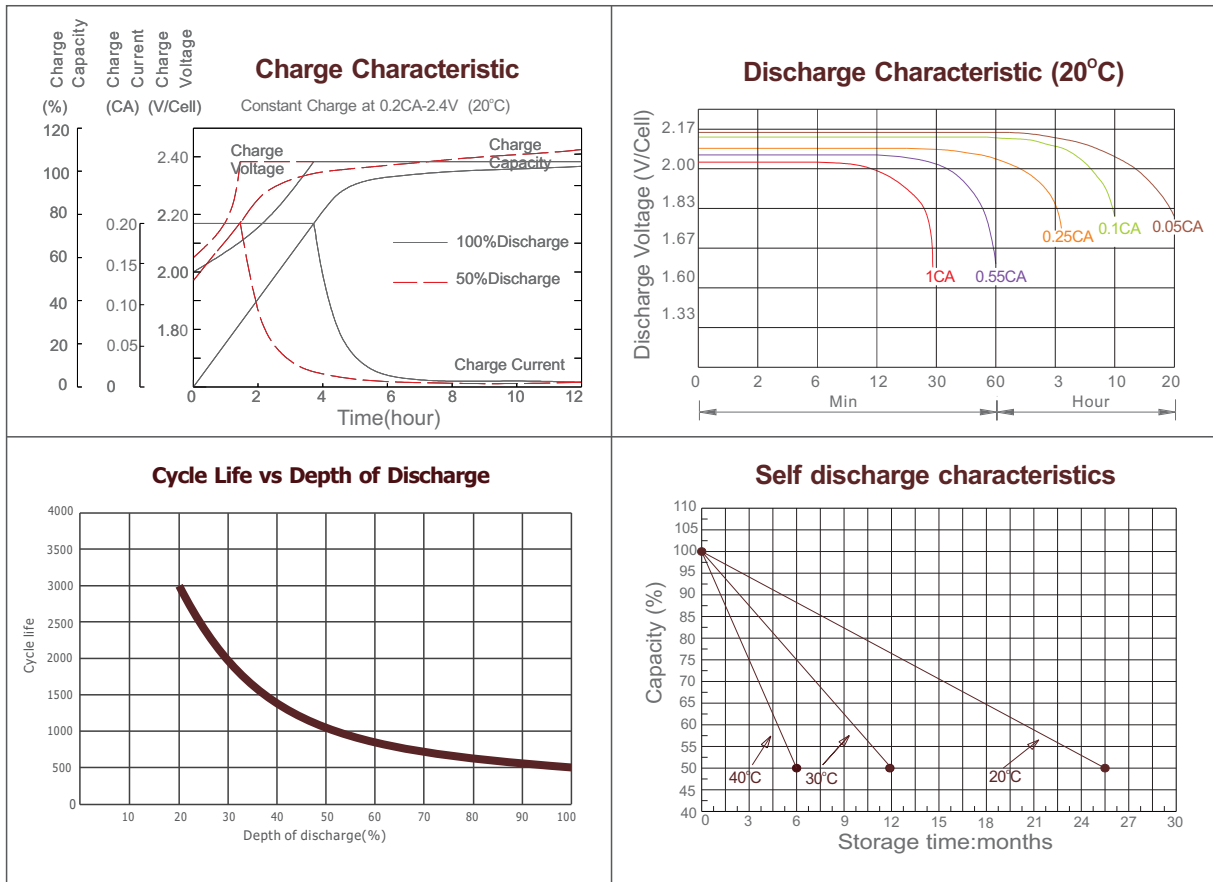
### BATTERY DIMENSIONS



### TECHNICAL SPECIFICATIONS

<b>Battery Model</b>	TG 12-200			
<b>Designed Floating Life(20°C)</b>	15 Years			
<b>Capacity(20°C)</b>	20HR(11.2A,1.80V)	10HR(21A,1.80V)	5HR(36.5A,1.80V)	1HR(119A,1.80V)
	224 Ah	210 Ah	182 Ah	119 Ah
<b>Dimensions</b>	Length	Width	Height	Total Height
	545mm (21.5 inch)	275mm (10.8 inch)	243mm (9.57 inch)	243mm (9.57 inch)
<b>Approx. Weight</b>	74.5 kg (164 lbs)			
<b>Terminal Type &amp; Torque</b>	Female Φ20-M8 / 12 Nm			
<b>Internal Resistance</b>	Full charged at 20°C: 0.005 Ohm			
<b>Max. Charge Current</b>	40A			
<b>Max. Discharge Current(5S)</b>	1000A			
<b>Short Circuit Current</b>	2400A			
<b>Self Discharge</b>	2% of capacity declined per month at 20°C			
<b>Ambient Temperature</b>	Storage:15~25°C	Charge:-15~60°C	Discharge:-15~60°C	
<b>Charge Voltage(20°C)</b>	Cycle use:14.1V-14.4V (-30mV/ °C)		Float use:13.5-13.7V (-18mV/ °C)	
<b>Capacity Affected by Temp.(10HR)</b>	40°C	20°C	0°C	-15°C
	106%	100%	85%	65%

## TUBULAR GEL SERIES VRLA BATTERY



### Constant current discharge ratings at 20°C (unit: ampere)

F.V/Time	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
1.70V	306	214	130	78.6	57.5	46.9	37.7	26.5	21.8	11.6
1.75V	278	205	126	77.2	56.8	46.4	37.3	26.3	21.4	11.4
1.80V	247	191	119	74.9	55.3	45.3	36.5	25.8	21.0	11.2
1.85V	227	181	116	73.0	52.7	43.3	35.0	24.2	20.6	11.1
1.90V	181	149	107	64.7	46.3	38.9	32.0	22.1	19.1	10.6

### Constant power discharge ratings at 20°C (unit: watts per cell)

F.V/Time	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
1.70V	503	354	240	149	112	94.4	84.0	54.4	45.6	25.0
1.75V	472	342	234	146	111	92.8	81.8	53.6	43.3	24.4
1.80V	431	327	227	145	110	91.3	79.9	51.7	42.2	23.5
1.85V	402	310	223	144	109	89.5	77.9	50.8	41.4	23.1
1.90V	337	269	201	132	103	85.1	74.4	47.3	38.6	21.4

### Headquarters and Subsidiaries

BSB Power Company Limited (Headquarters) - China  
 BSB Power Europe - France  
 BSB Power Malaysia Sdn. Bhd - Malaysia  
 PT. BSB Indonesia - Indonesia  
 BSB Power (Thailand) Co., Ltd - Thailand  
 BSB Power Company Pakistan (Private) Ltd - Pakistan

