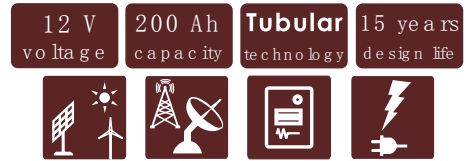


TUBULAR GEL SERIES VRLA BATTERY

TG SERIES

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.

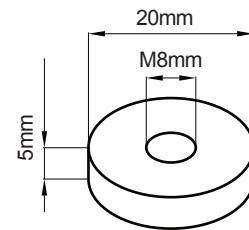
CONSTRUCTION

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

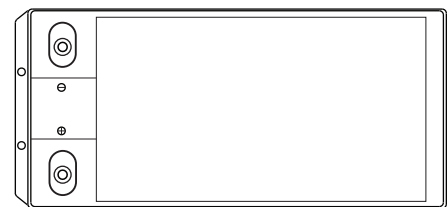
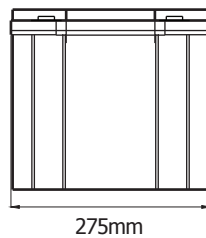
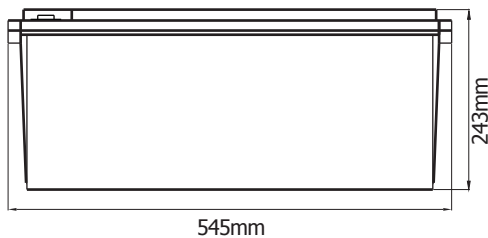
COMPLIED STANDARDS

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

TERMINAL DIMENSIONS



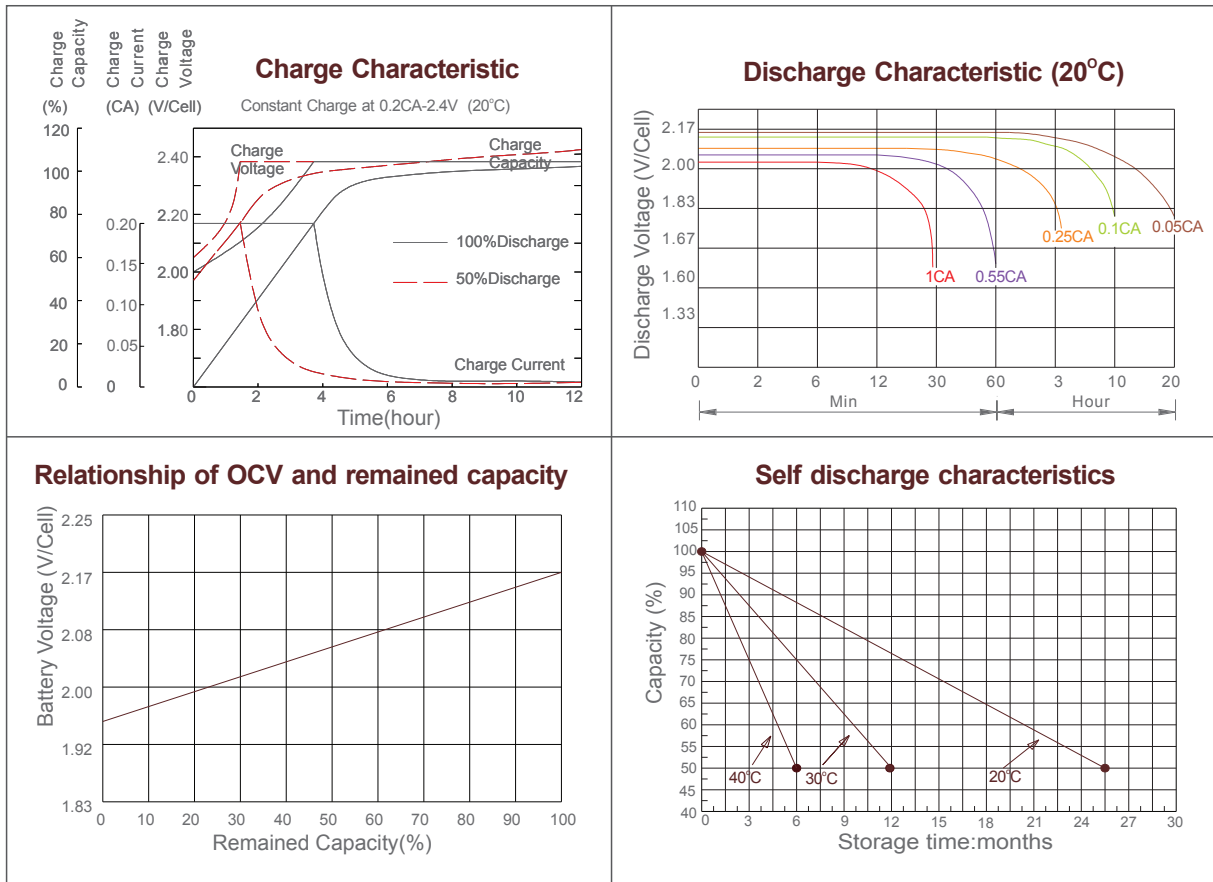
BATTERY DIMENSIONS



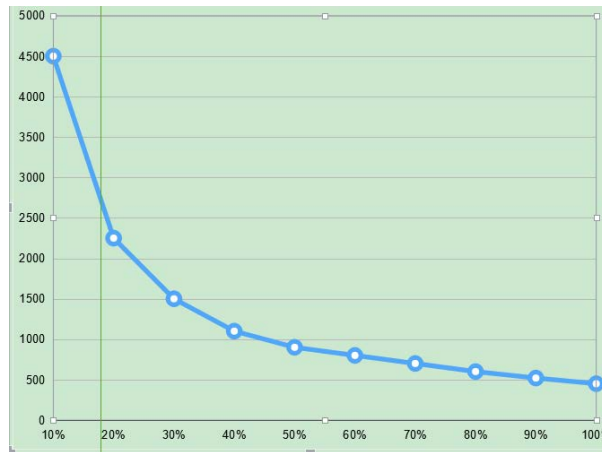
TECHNICAL SPECIFICATIONS

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

TUBULAR GEL SERIES VRLA BATTERY



Depth of Discharge



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