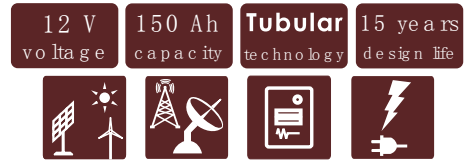


TUBULAR GEL SERIES VRLA BATTERY

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.



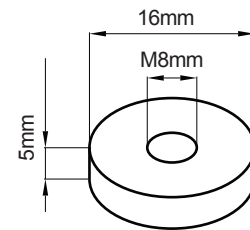
CONSTRUCTION

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

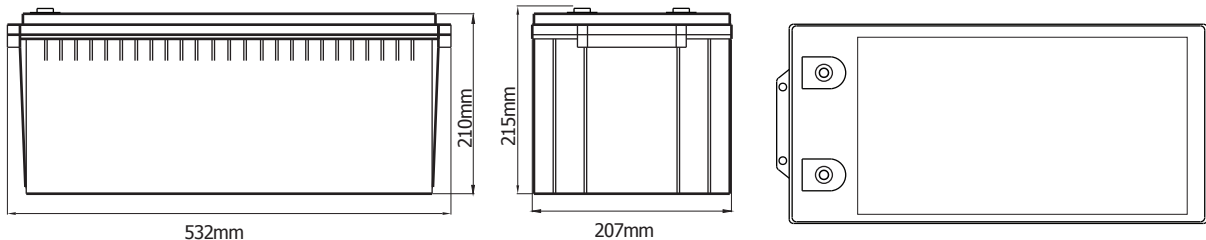
COMPLIED STANDARDS

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

TERMINAL DIMENSIONS



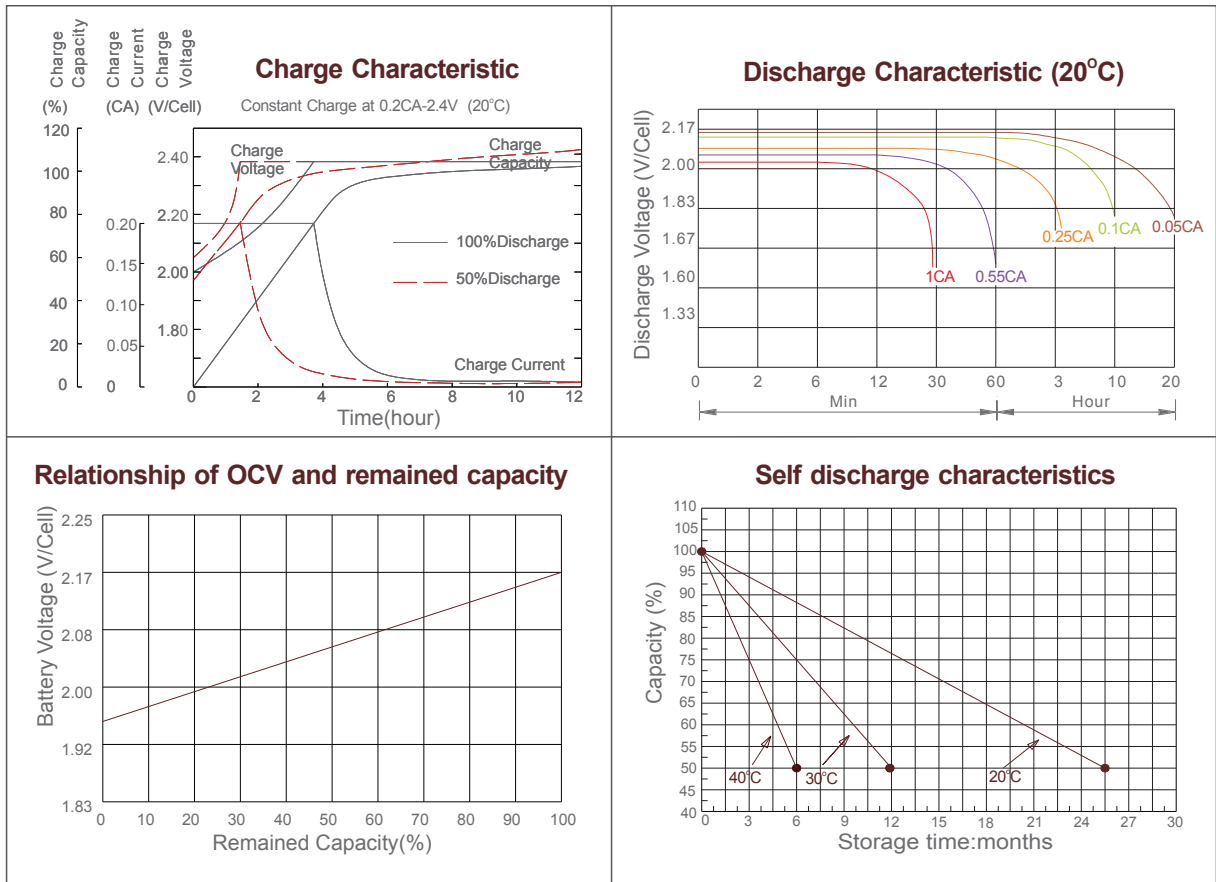
BATTERY DIMENSIONS



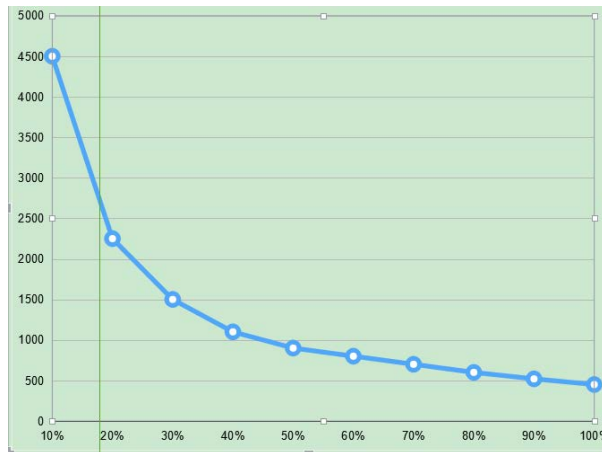
TECHNICAL SPECIFICATIONS

Battery Model	TG 12-150			
Designed Floating Life(20°C)	15 Years			
Capacity(20°C)	20HR(8.2A,1.80V)	10HR(15.5A,1.80V)	5HR(27.2A,1.80V)	1HR(89A,1.80V)
	164 Ah	155 Ah	136 Ah	89 Ah
Dimensions	Length	Width	Height	Total Height
	532mm (20.9 inch)	207mm (8.15 inch)	210mm (8.37 inch)	215mm (8.46 inch)
Approx. Weight	51 kg (112 lbs)			
Terminal Type & Torque	Female Φ16-M8 / 12 Nm			
Internal Resistance	Full charged at 20°C: 0.007 Ohm			
Max. Charge Current	30A			
Max. Discharge Current(5S)	750A			
Short Circuit Current	1700A			
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	229	161	97.4	59.0	43.1	35.2	28.3	19.8	16.2	8.43
1.75V	209	154	94.7	57.9	42.6	34.8	28.0	19.7	15.9	8.31
1.80V	185	143	89.6	56.2	41.5	34.0	27.3	19.4	15.5	8.20
1.85V	170	136	86.6	54.7	39.5	32.5	26.2	18.1	15.0	8.09
1.90V	135	112	80.0	48.6	34.7	29.2	24.0	16.5	14.2	7.76

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	377	265	180	111	83.7	70.8	63.0	40.8	33.7	18.7
1.75V	354	256	175	109	83.5	69.6	61.4	40.2	32.0	18.3
1.80V	323	245	170	109	82.5	68.5	59.9	38.7	31.2	17.6
1.85V	302	233	167	108	81.8	67.2	58.4	38.1	30.6	17.3
1.90V	253	202	151	99.0	77.2	63.9	55.8	35.4	28.6	16.1