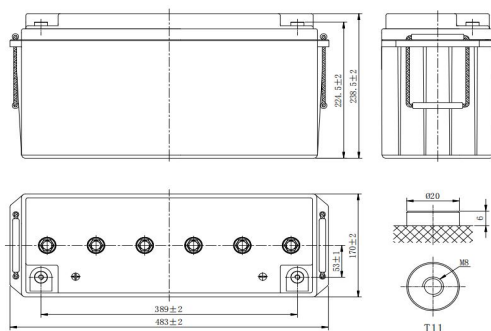




TVG SERIES-VRLA GEL Battery

TVG12-150 (12V150Ah)



CHARACTERISTICS

Rated Voltage	12V	
Nominal Capacity (25°C)	C ₁₀ , 1.80V/cell	150Ah
Dimension	Length	483mm (19.0inches)
	Width	170mm (6.69inches)
	Container Height	238.5mm (9.39inches)
	Total Height	238.5mm (9.39inches)
Approx Weight	43.6kg (96.1lbs)	
Terminal	T11	
Container Material	ABS (UL94 HB or V-0 optional)	
Short-circuit current	3000A	
Internal Resistance (25°C)	Approx 3.5 mΩ (Fully charged)	
Operating Temp. Range	Discharge	-20~55°C (-4~131°F)
	Charge	-20~40°C (-4~104°F)
	Storage	-20~50°C (-4~122°F)
Nominal Operating Temp. Range	25±3°C (77±5°F)	
Max.Charging Current (25°C)	0.25C	
Charge voltage (25°C)	Standby Use	Cycle Use
	2.25-2.30V/cell	2.35-2.40V/cell
Temp. Coefficient	-3mV/cell/°C	-5mV/cell/°C
Effect of temp. to Capacity	40°C (104°F)	103%
	25°C (77°F)	100%
	0°C (32°F)	86%
Self Discharge	1. ≤3% per month at 25°C (77°F). 2. TVG series batteries may be stored up to 6 months at 25°C (77°F) and then a freshening charge is required. 3. For higher temperatures the time interval will be shorter.	

DISCHARGE TABLE

Constant Current Discharge (Amperes) at 25°C (77°F)

F.V/Time	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	161.7	135.2	106.9	81.2	67.2	42.7	33.2	27.3	23.2	20.2	16.4	13.9	7.5
1.80V/cell	192.5	157.5	123	92.1	74.7	46.4	35.6	29	24.9	21.7	17.5	15	7.73
1.75V/cell	214.6	173	131.1	97.4	79	48.6	36.9	30	25.5	22.3	17.8	15.2	7.8
1.70V/cell	231.8	183.9	138.3	102.3	82.5	51	38.2	30.9	26.2	22.7	18.1	15.2	7.95
1.67V/cell	244.1	193.5	144.8	105.4	85.4	52.4	39.6	31.8	26.8	23.2	18.3	15.4	8.03
1.60V/cell	263.2	207.8	153.9	111.4	89.6	54.3	41	32.6	27.3	23.7	18.6	15.6	8.1

Constant Power Discharge (Watts/cell) at 25°C (77°F)

F.V/Time	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	304	256.9	204.8	156.7	130.1	83.2	64.8	53.5	45.6	39.8	32.6	27.7	14.9
1.80V/cell	357.4	295.1	232.8	176.5	144	89.9	69.3	56.7	48.8	42.6	34.6	29.7	15.3
1.75V/cell	393.2	320.6	246	185.1	151.6	93.9	71.6	58.4	49.8	43.6	35.1	30	15.5
1.70V/cell	418.2	337.8	257.6	193.3	157.6	98.2	73.9	60	51	44.5	35.6	30.1	15.8
1.67V/cell	436.1	352.1	267.3	197.5	162.1	100.3	76.3	61.6	52	45.3	36	30.4	15.9
1.60V/cell	462.4	373.9	281.7	207.5	169	103.5	78.6	62.8	52.9	46.1	36.4	30.8	16



TVG SERIES-VRLA GEL Battery

TVG12-150 (12V150Ah)

APPLICATIONS

- Communication power supply
- Engine starting
- Pump systems
- Alarm installations
- Marine and power stations

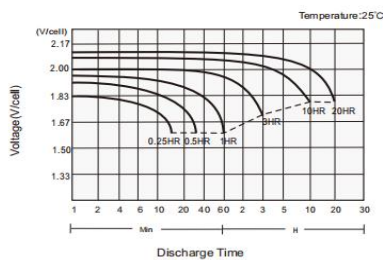
GENERAL FEATURES

- 12 years design life (25°C)
- Proven AGM-GEL technology
- Excellent deep discharge recovery and cyclability
- Very low maintenance: no water addition
- Low self-discharge rate

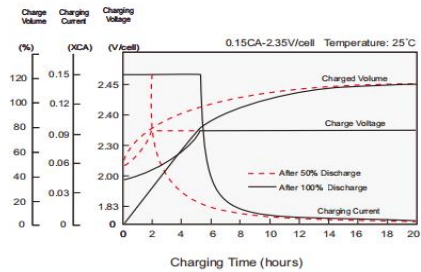
STANDARDS

- IEC60896 Certified
- Classified as "Long Life" according to Eurobat
- UL,CE Approved
- Manufactured in ISO 45001, ISO 9001 and ISO 14001 certified production facilities

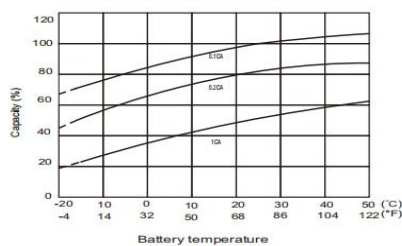
Discharge Characteristics



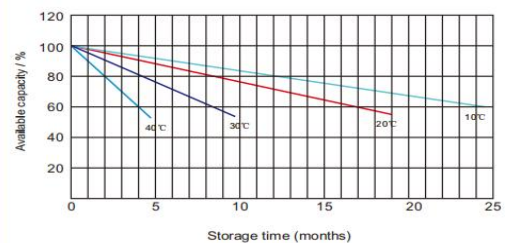
Charging Characteristics



Effects of Temperature on Capacity



Self Discharge Characteristics



Suzhou ThinkVolt New Energy Co.,Ltd

www.cnthinkvolt.com

Data above is recommended and the picture is only for battery effect display, ThinkVolt reserves the final right of explanation.