



FEATURES



Compact size ideal for any type of use.

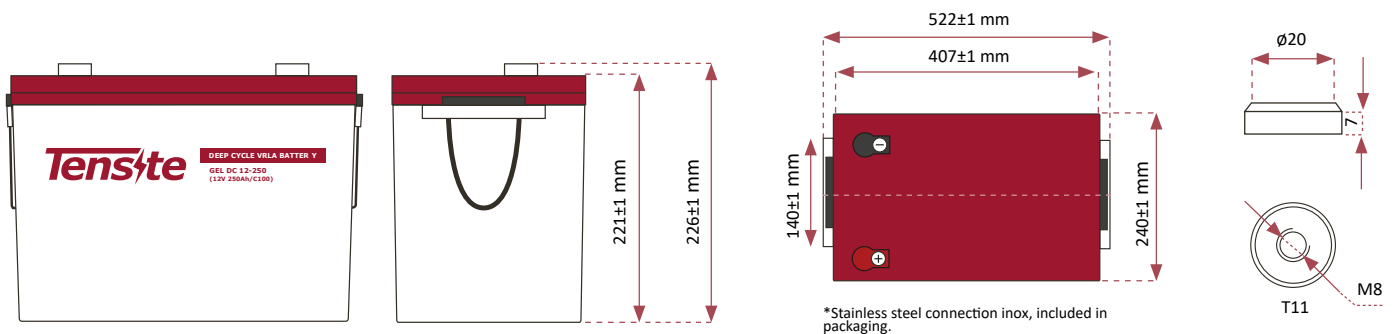


Great performance due to its deep discharge cycle life.



Perfect to use as accumulator in photovoltaic installations.

DIMENSIONS



GEL BATTERY 12V 250 AH

GEL SERIES BATTERY

The GEL series batteries incorporate the new CCDR continuous lamination stamped plate technology, which allows them to withstand deep cyclic charge and discharge applications. The batteries use colloidal or foamed silica gel that immobilises the electrolyte, which further enhances the cycling stability and eliminates stratification.

Gel series batteries are the special design batteries with 15 years floating design life at 20°C. Meet with IEC, BS, JIS and Eurobat standards.



APPLICATION

- Emergency power system.
- Communication equipment.
- Telecommunications systems.
- Uninterruptible power supplies.
- Electric wheelchairs.
- Electric toys, cars and wheelchairs.
- Power tools.
- Golf carts and buggies.
- Marine equipment.
- Medical equipment.
- Solar and wind power system.

GENERAL FEATURES

- Safety sealing.
- Non-spillable technology.
- High power density.
- Excellent deep discharge recovery.
- Thick plates and highly active materials.
- Longer life and low self-discharge design.

TECHNICAL SPECIFICATIONS

BATTERY MODEL	Nominal voltage				12 V			
	Rated capacity (100 hour rate)				250 Ah			
	Cells Per battery				6			
DIMENSIONS	Length	Width	Height		Total Height			
	522 mm	240 mm	218 mm		224 mm			
APPROXIMATE WEIGHT	57 kg ± 3%							
CAPACITY @ 25°C	10 hour rate (9.1A)		5 hour rate (15.1A)		3 hour rate (23.8A)		1 hour rate (33.8A)	
	200 Ah		173 Ah		157 Ah		122 Ah	
MAX. DISCHARGE CURRENT	2000 A (5 seg.)							
MAX. CHARGE CURRENT	60 A							
INTERNAL RESISTANCE	Full charged at 25°C: Approx. 2.1mΩ							
CAPACITY VS TEMPERATURE	40°C		25°C		0°C		-15°C	
	102%		100%		85%		65%	
SELF DISCHARGE @ 25°C	After 3 months in storage			After 6 months in storage		After 12 months in storage		
	91%			82%		64%		
CHARGE METHOD @ 25°C	Cycle Use				Float Use			
	14,30 - 14,60 V				13,60- 13,80 V			
CONSTRUCTION	Container	Electrolyte	Separators	Positive	Negative	Valve	Terminal	
	ABS (UL94-HB) / Flame retardant ABS (UL94-V0)	Sulfuric Acid Thixotropic Gel	Macromolecule polymer	Lead Dioxide	Lead	EPDR	Copper	

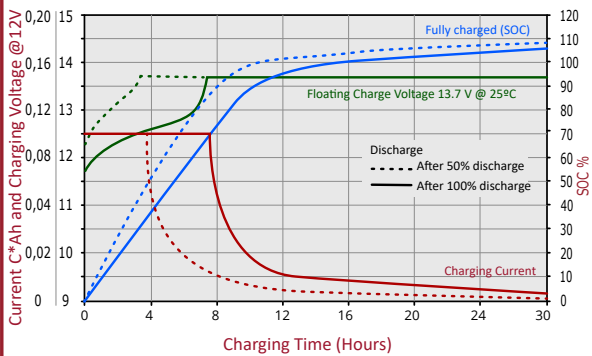
BATTERY DISCHARGE TABLE

F.V / TIME		CONSTANT CURRENT (AMP) AND CONSTANT POWER (WATT) DISCHARGE TABLE AT 25 °C							
		10 min	15 min	30 min	1 hr	3 hrs	5 hrs	10hrs	20 hrs
1.60	A	503.24	367.75	236.56	131.10	56.45	39.12	21.80	11.82
	W	943.57	704.25	457.05	255.38	110.20	77.06	44.71	24.41
1.65	A	484.12	356.72	231.19	130.20	55.10	37.84	20.92	11.40
	W	900.94	678.84	442.96	237.87	106.69	74.01	42.45	23.22
1.70	A	474.56	347.89	229.04	129.55	54.30	37.14	20.42	11.02
	W	876.98	654.40	434.03	247.31	104.10	71.99	40.92	22.10
1.75	A	447.38	334.65	225.81	129.03	53.76	36.56	20.00	10.75
	W	816.90	624.13	424.30	242.85	101.61	69.97	39.60	21.38
1.80	A	431.78	328.03	221.51	124.13	51.99	35.75	19.66	10.61
	W	781.95	606.20	411.12	231.26	97.48	67.83	38.61	20.92

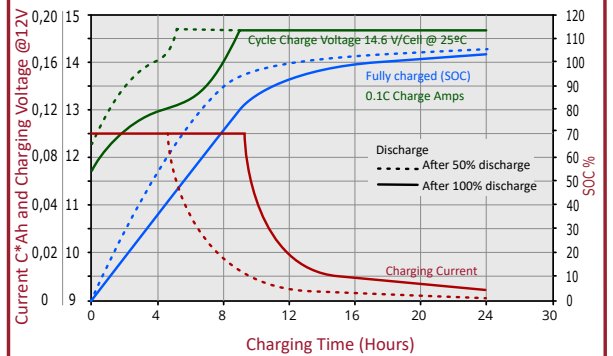
USE IN FLOTATION: The battery is connected to the charger continuously, maintaining the charge at 100%, ready for discharge at specific times. This is the case of alarms, UPS systems, backup systems, telecommunications backup.

USE IN CYCLES: The battery is charged and discharged, repeating this cycle regularly. This is the case for residential photovoltaic installations (day/night), electric cars and in applications that are consumed when no load is available. The starting of combustion engines would be an application that combines both types of use.

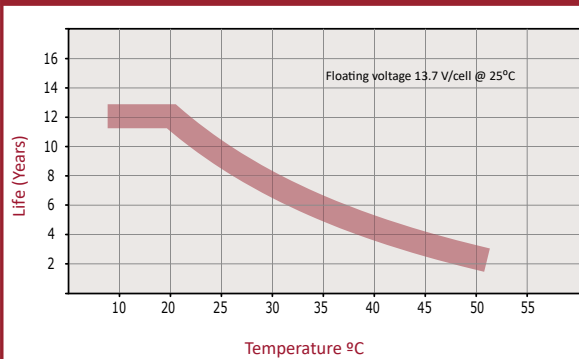
Float Use: Charging Characteristics



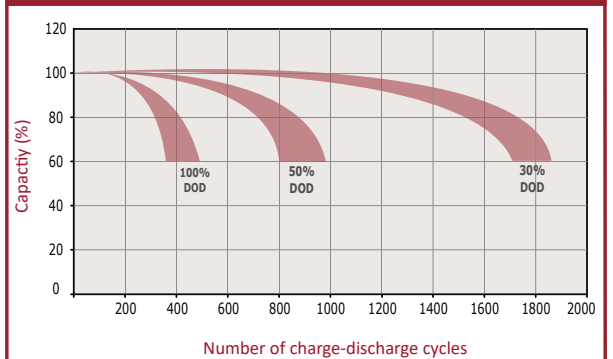
Cycle Use: Charging Characteristics



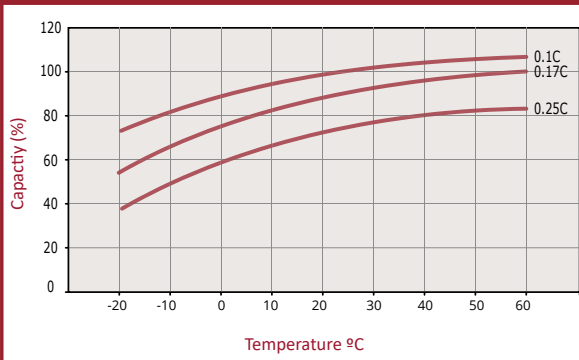
Expected life at Flotation and Temperature



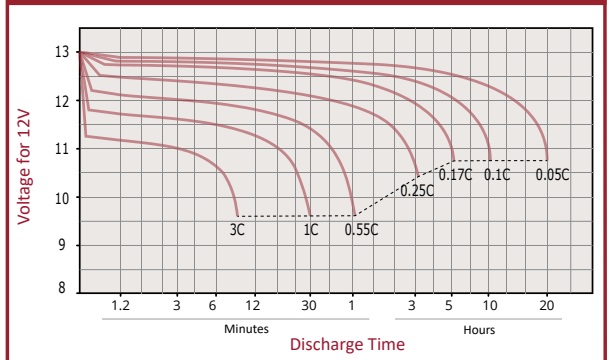
Cycle life in relation to Depth of Discharge



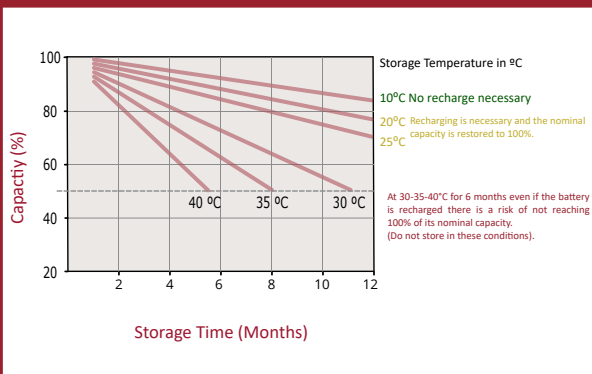
Temperature effects in relation to battery capacity



Discharge Characteristics 25°C (77°F)



Self-Discharge Characteristics with Temperature



Voltage Charge and Temperature

