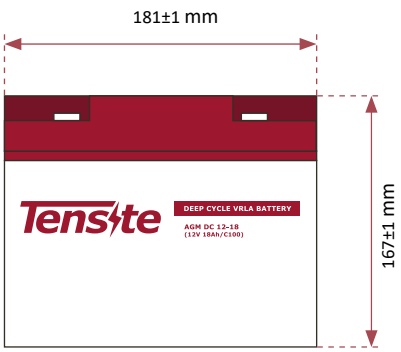
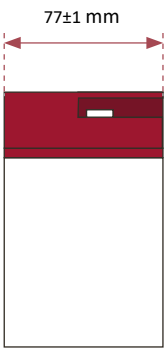
AGM DC 12-18

FEATURES

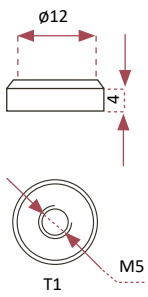
- **Compact size ideal for any type of use.**
- **High performance due to its deep discharge life cycle.**
- **Designed for photovoltaic installations.**

DIMENSIONS





* Stainless steel connection screws, included in packaging.



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DEEP CYCLE BATTERY AGM
12V 18 AH

DEEP CYCLE SERIES BATTERY

The DC series VRLA batteries are superior deep cycle design with thick plates, high-density active materials and slightly stronger electrolyte which can withstand repeated deep cyclic applications.
Deep Cycle series batteries are the special design batteries with 6 years floating life at 25°C. Meet with IEC, BS, JIS, Eurobat, UL (MH62092) and CE approved.

APPLICATION

- Emergency power system.
- Communication equipment.
- Telecommunications systems.
- Uninterruptible power supply.
- Electric wheelchairs.
- Electric toys, cars and motorcycles.
- Electric tools.
- Golf carts and buggies.
- Marine electrical equipment.
- Emergency medical equipment.
- Camping and caravans.
- Solar and wind energy systems.

GENERAL FEATURES

- Safety sealing.
- Anti-spill technology.
- High power density.
- Excellent deep discharge recovery.
- Thick plates and highly active materials.
- Longer service life and low self-discharge.

TECHNICAL SPECIFICATIONS

BATTERY MODEL	**Nominal Voltage**		12 V	
	Rated Capacity (20 Hour rate)		18 Ah	
	Cells per battery		6	
DIMENSIONS	**Length**	**Width**	**Height**	**Total Height**
	181 mm	77 mm	167 mm	167 mm
APPROXIMATE WEIGHT	5,3 kg ± 3%			
CAPACITY @ 25ºC (77 °F)	**20 hours (0.9 A, 10.5 V)**	**10 hours (1.66 A, 10.5 V)**	**5 hours (3.06 A, 10.5 V)**	**1 hour (1.08 A, 9.6 V)**
	18 Ah	16,6 Ah	15,3 Ah	10,8 Ah
MAXIMUM DISCHARGE CURRENT	270 A (5 seconds.)			
INTERNAL RESISTANCE	Fully charged at 25°C: Approximately 10.5 mΩ			
CAPACITY VS TEMPERATURE	**40°C**	**25°C**	**0°C**	**-15°C**
	102%	100%	85%	65%
SELF DISCHARGE @ 25ºC	**After 3 months in storage**		**After 6 months**	**After 12 months**
	91%		82%	64%
CHARGE METHOD @ 25ºC	**Cycle Use**		**Float Use**	
	14,3V / 14,6V (Initial charging current less than 5,4A)		**13,7V +-2%**	

BATTERY DISCHARGE TABLE

CONSTANT CURRENT(A) AND CONSTANT POWER (W) DISCHARGE TABLE AT 25ºC									
F.V / TIME		**10 min**	**15 min**	**30 min**	**1 hr**	**3 hrs**	**5 hrs**	**10hrs**	**20 hrs**
9.60	**A**	42.50	31.50	20.70	10.80	4.64	3.16	1.70	0.93
	W	480.00	363.00	219.70	124.50	53.63	36.53	19.72	10.80
10.20	**A**	40.60	28.90	19.70	10.14	4.50	3.10	1.67	0.91
	W	454.50	341.20	218.30	117.00	52.12	35.85	19.35	10.50
10.50	**A**	38.00	27.00	19.00	9.81	4.42	3.06	1.66	0.90
	W	441.00	326.30	216.00	113.50	51.22	35.63	19.20	10.43
10.80	**A**	36.30	25.20	18.50	9.48	4.35	2.93	1.61	0.88
	W	427.50	314.20	215.20	110.30	50.63	34.05	18.75	10.20
11.10	**A**	34.20	23.40	18.00	9.15	4.13	2.80	1.58	0.86
	W	413.20	299.30	213.80	108.80	49.13	33.30	18.37	10.13

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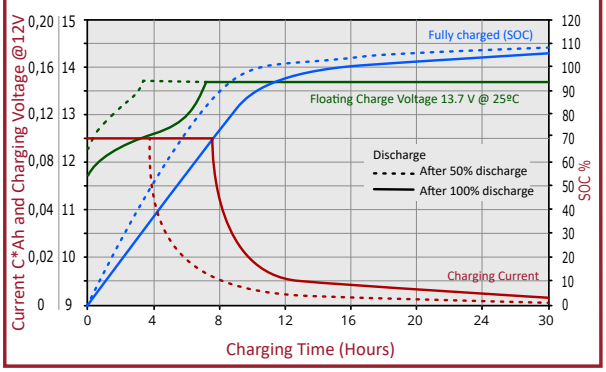
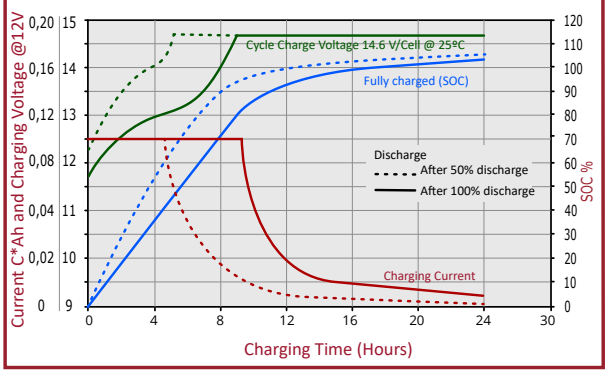
AGM DC 12-18

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.

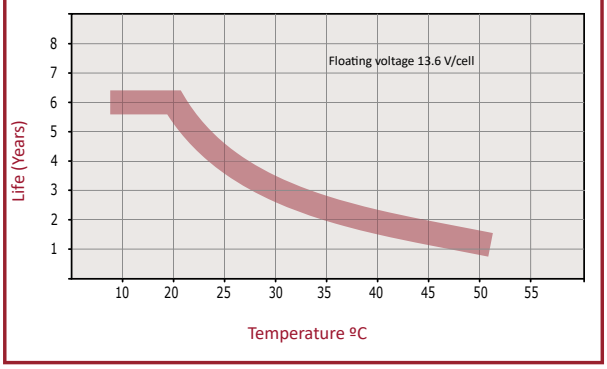
Float Use: Charging Characteristics



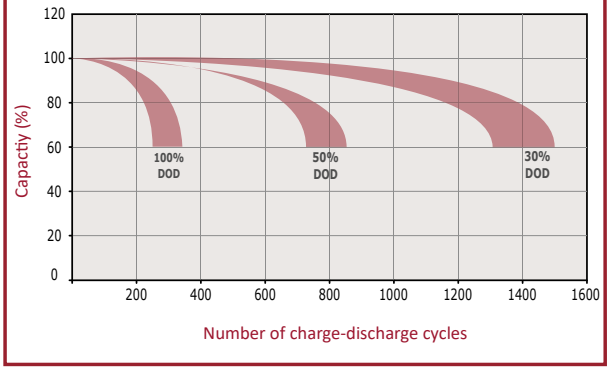
Cycle Use: Charging Characteristics



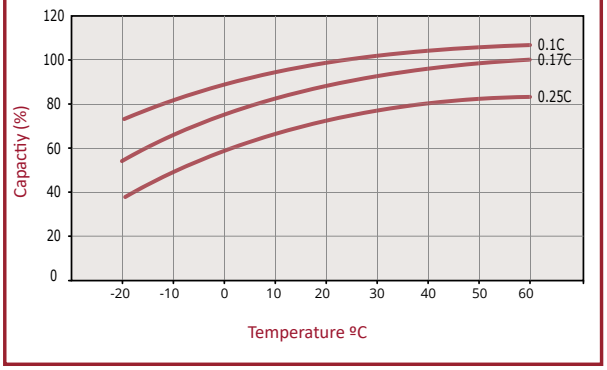
Expected life at Flotation and Temperature



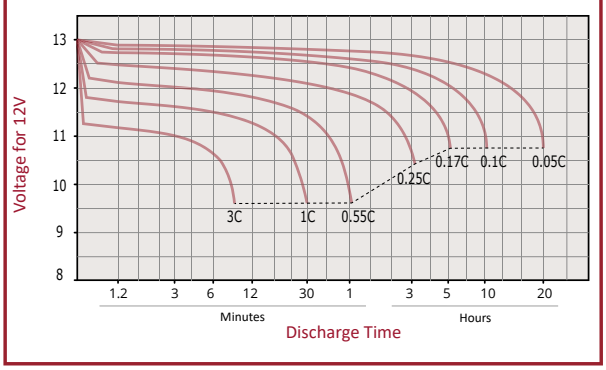
Cycle life in relation to Depth of Discharge



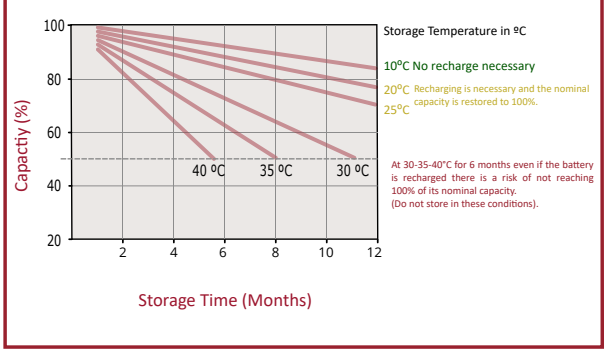
Temperature effects in relation to battery capacity



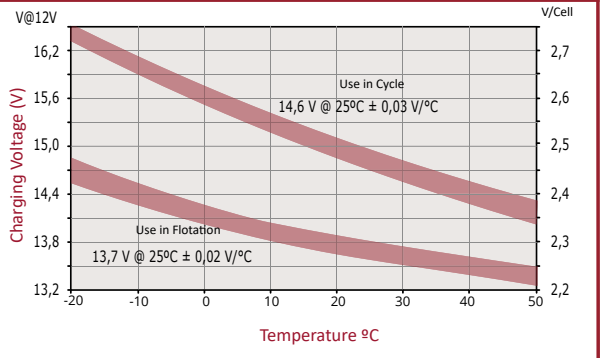
Discharge Characteristics 25ºC (77ºF)



Self-Discharge Characteristics with Temperature



Voltage Charge and Temperature



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