



FEATURES



Compact size ideal for any type of use.

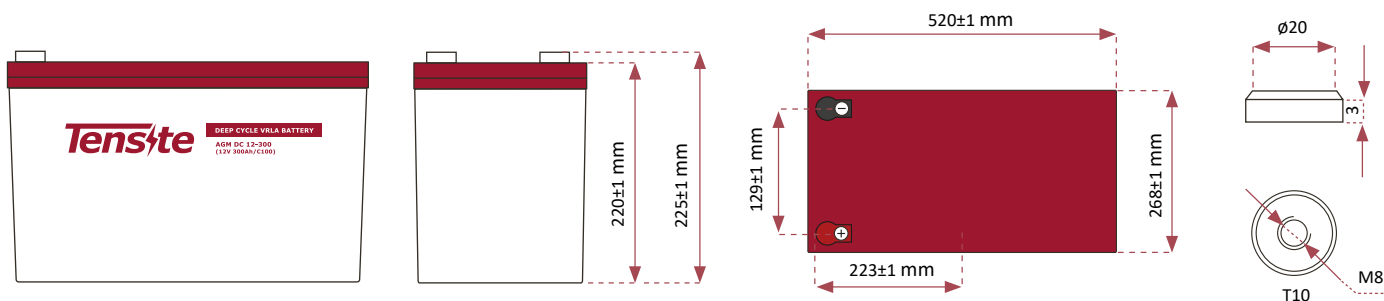


High performance due to its deep discharge life cycle.



Designed for photovoltaic installations.

DIMENSIONS



* Stainless steel connection screws, included in packaging.

DEEP CYCLE BATTERY AGM 12V 300 AH

DEEP CYCLE SERIES BATTERY

The CCDR 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 (100 Hour rate) | | 300 Ah | |
| | Cells per battery | | 6 | |
| DIMENSIONS | Length | Width | Height | Total Height |
| | 522 mm | 268 mm | 220 mm | 225 mm |
| APPROXIMATE WEIGHT | 65,6 kg ± 3% | | | |
| CAPACITY @ 25°C (77 °F) | 10 hours | 5 hours | 3 hours | 1 hour |
| | 250 Ah | 222 Ah | 196,2 Ah | 150 Ah |
| MAXIMUM DISCHARGE CURRENT | 2500 A (5 sec.) | | | |
| MAXIMUM CHARGE CURRENT | 75 A | | | |
| INTERNAL RESISTANCE | Fully charged at 25°C: Approximately 2,5 mΩ | | | |
| 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 | After 12 months |
| | 91% | | 82% | 64% |
| CHARGE METHOD @ 25°C | Cycle Use | | Float Use | |
| | 14,3 - 14,6 V | | 13,6 - 13,8 V | |

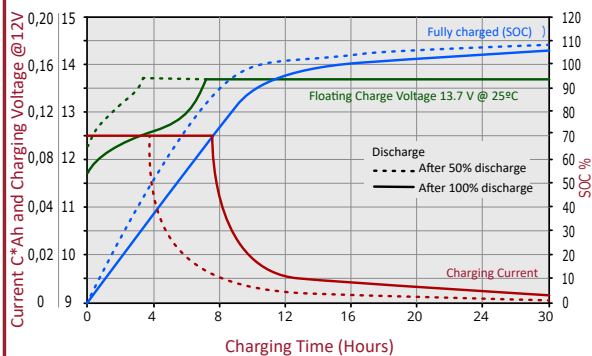
BATTERY DISCHARGE TABLE

| CONSTANT CURRENT(A) AND CONSTANT POWER (W) DISCHARGE TABLE AT 25°C | | | | | | | | | |
|--|---|---------|---------|---------|---------|--------|--------|--------|--------|
| F.V / TIME | | 10 min | 15 min | 30 min | 1 hr | 3 hrs | 5 hrs | 10hrs | 20 hrs |
| 9.60 | A | 528.00 | 435.00 | 285.00 | 150.00 | 65.90 | 44.98 | 25.94 | 13.97 |
| | W | 5634.00 | 5037.30 | 3065.00 | 1795.00 | 791.40 | 540.00 | 311.42 | 167.67 |
| 10.20 | A | 476.00 | 402.20 | 248.80 | 147.80 | 65.40 | 44.72 | 25.22 | 12.92 |
| | W | 5315.00 | 4665.10 | 2975.60 | 1771.70 | 786.80 | 538.10 | 303.49 | 155.44 |
| 10.50 | A | 426.00 | 385.20 | 255.00 | 145.50 | 65.00 | 44.49 | 25.25 | 13.75 |
| | W | 4843.00 | 4473.20 | 2925.20 | 1750.00 | 782.30 | 535.50 | 301.10 | 162.50 |
| 10.80 | A | 401.00 | 369.40 | 235.00 | 144.60 | 65.60 | 44.36 | 25.00 | 13.50 |
| | W | 4627.00 | 3750.00 | 2723.00 | 1536.00 | 702.00 | 461.00 | 297.00 | 160.80 |
| 11.10 | A | 376.00 | 301.00 | 210.00 | 127.50 | 57.50 | 38.00 | 23.75 | 12.75 |
| | W | 4354.00 | 3498.00 | 2457.00 | 1499.00 | 683.00 | 453.00 | 286.70 | 154.50 |

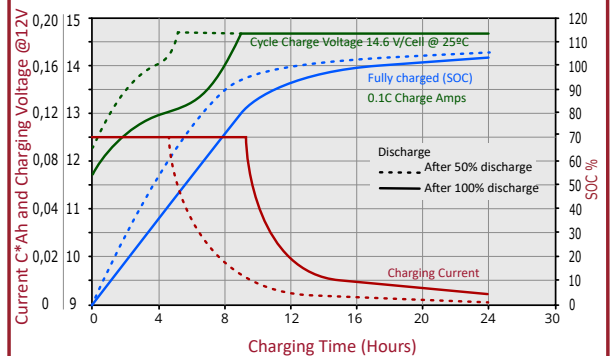
USE IN FLOTATION: The battery is connected to the charger continuously, maintaining the charge at 100%, ready for discharge at specific times. This is the case of alarms, UPS systems, backup systems, telecommunications backup.

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.

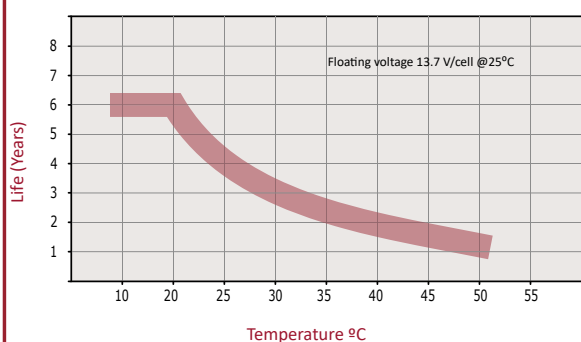
Float Use: Charging Characteristics



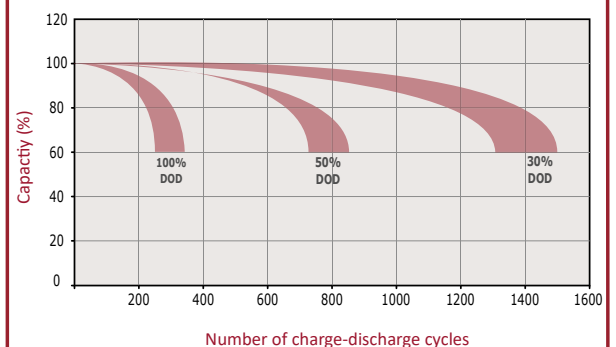
Cycle Use: Charging Characteristics



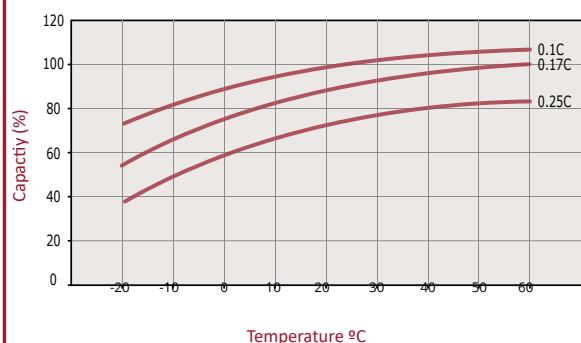
Expected life at Flotation and Temperature



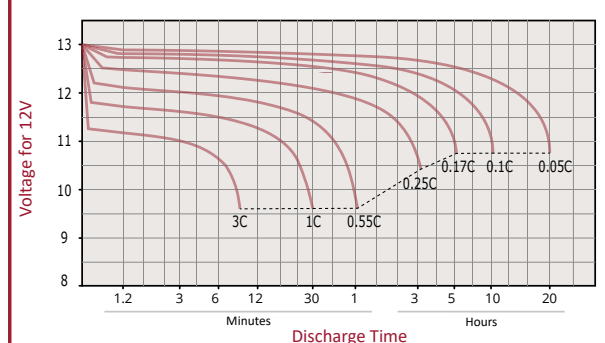
Cycle life in relation to Depth of Discharge



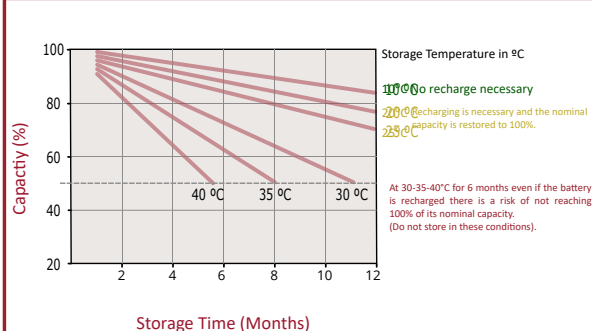
Temperature effects in relation to battery capacity



Discharge Characteristics 25°C (77°F)



Self-Discharge Characteristics with Temperature



Voltage Charge and Temperature

