



## FEATURES



Compact size ideal for any type of use.

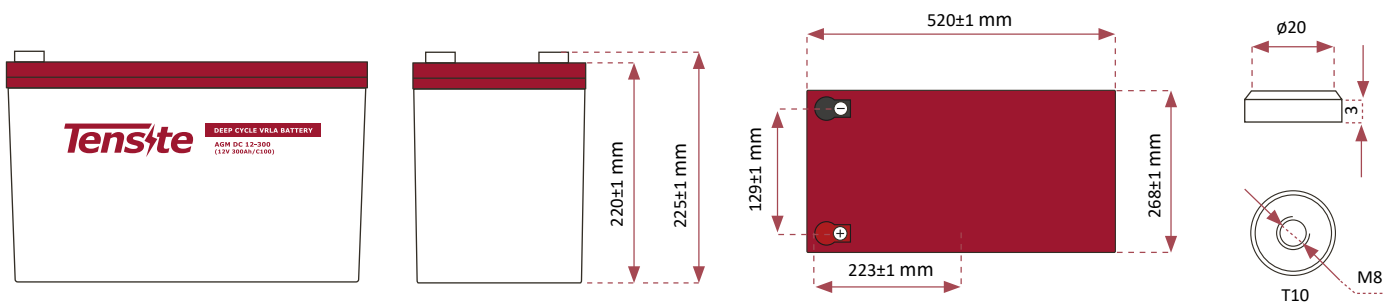


High performance due to its deep discharge life cycle.



Designed for photovoltaic installations.

## DIMENSIONS



## 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%			
	Cycle Use							Float Use
CHARGE METHOD @ 25°C	14,3 - 14,6 V				13,6 - 13,8 V			
	Container	Electrolyte	Separators	Positive	Negative	Valve	Terminal	
CONSTRUCTION	ABS (UL94-HB) / Flame retardant ABS (UL94-V0)	Sulfuric acid	Fiber glass	Lead dioxide	Lead	EPDR	Copper	

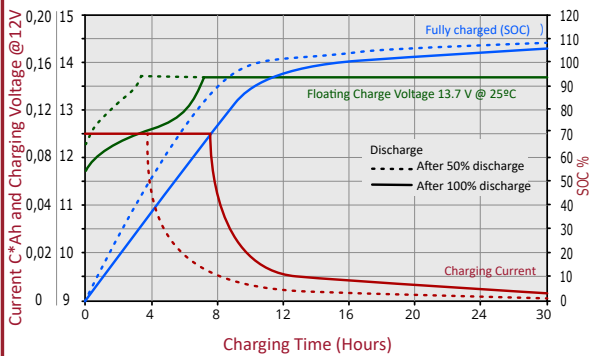
### BATTERY DISCHARGE TABLE

F.V / TIME		CONSTANT CURRENT(A) AND CONSTANT POWER (W) DISCHARGE TABLE AT 25°C							
		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

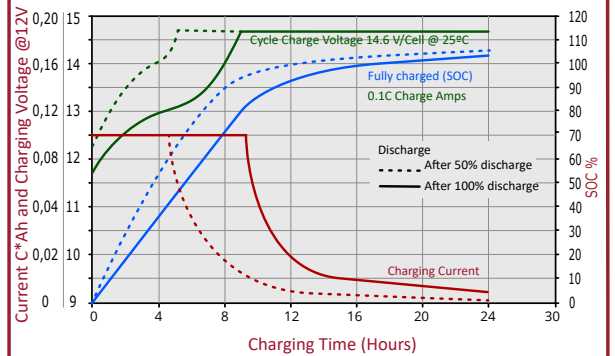
**USE IN FLOTATION:** The battery is connected to the charger continuously, maintaining the charge at 100%, ready for discharge at specific times. This is the case of alarms, UPS systems, backup systems, telecommunications backup.

**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.

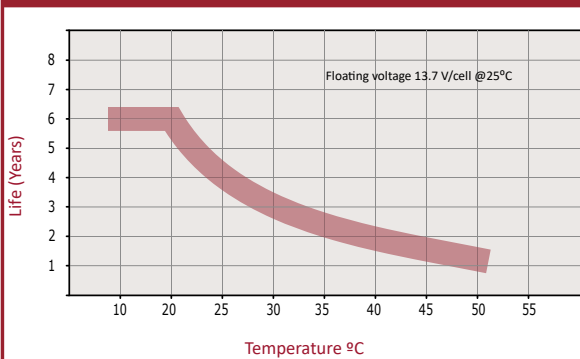
### Float Use: Charging Characteristics



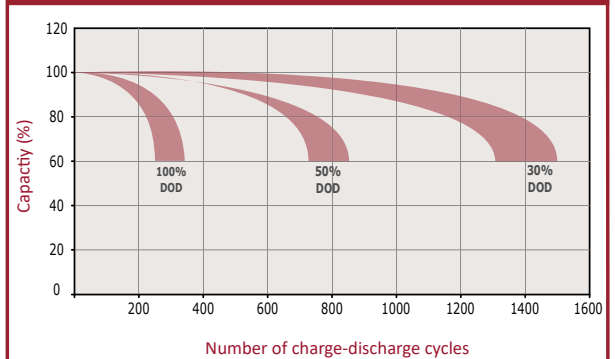
### Cycle Use: Charging Characteristics



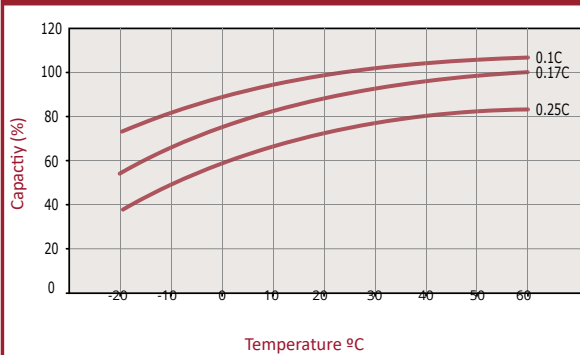
### Expected life at Flotation and Temperature



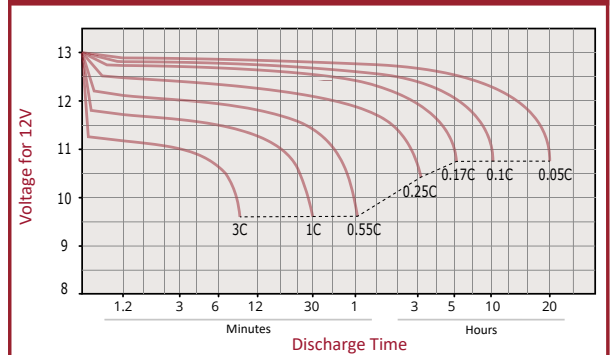
### Cycle life in relation to Depth of Discharge



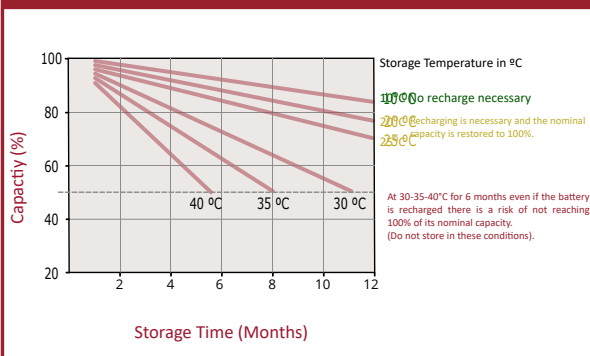
### Temperature effects in relation to battery capacity



### Discharge Characteristics 25°C (77°F)



### Self-Discharge Characteristics with Temperature



### Voltage Charge and Temperature

