

FEATURES



Compact size ideal for any type of use.

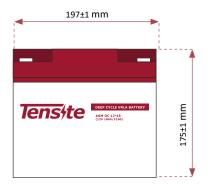


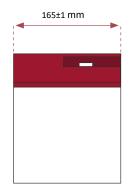
High performance due to its deep discharge life cycle.



Designed for photovoltaic installations.

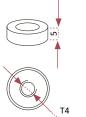
DIMENSIONS

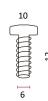




















GEL BATTERY 12V 40 AH

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

	Nominal Voltage				12 V				
BATTERY MODEL	F	Rated capacity (100 hour rate)				40 Ah			
	Cells per battery				6				
	Length		Width		Height		Tot	Total Height	
DIMENSIONS	197 mr	m	165 mm		174 mm		1	175 mm	
APPROXIMATE WEIGHT	13,45 kg ± 3%								
CAPACITY @ 25°C	10 hours		5 hours		3 hours		:	1 hour	
CAPACITY @ 25°C	40 Ah		32 Ah		30Ah			24 Ah	
MAXIMUM DISCHARGE CURRENT	380 A (5 sec.)								
MAXIMUN CHARGE CURRENT	12 A								
INTERNAL RESISTANCE	Fully charged at 25°C: Approx 5.9 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 in storage	After 12 m	After 12 months in storage	
SELF DISCHARGE @ 25=0	91%					82%		64%	
CHARGE METHOD @ 25ºC	Cycle Use				Float Use				
	14.4-15.0V				13,50- 13,80 V				
	Container	Electrolyte	Separators	Pos	itive	Negative	Valve	Terminal	
CONSTRUCTION	ABS (UL94-HB) / Flame retardant ABS (UL94-V0)	Sulfuric acid thixotropic ge	Macromolecule polymer	Lead o	dioxide	Lead	EPDR	Copper	

BATTERY DISCHARGE TABLE

CONSTANT CURRENT(A) AND ONSTANTE POWER (W) DISCHARGE TABLE AT 25°C										
F.V / TIME		10 mins	15 mins	30 min	1 hr	3 hrs	5 hrs	10hrs	20 hrs	
11.1	A	60.0	48.0	33.6	20.4	9.2	6.10	3.80	2.27	
	W	697.0	560.0	393.0	240.0	109.0	73.00	45.90	4.40	
10.80	А	64.0	52.0	37.6	21.1	9.5	6.20	4.00	2.50	
	W	740.0	600.0	436.0	246.0	112.0	74.00	48.00	4.80	
10.50	A	68.00	56.0	40.80	21.8	9.8	6.40	4.04	2.20	
	W	775.0	640.0	470.0	253.0	114.0	75.00	48.00	4.30	
10.20	A	76.0	64.0	43.6	22.6	10.0	6.50	4.12	2.16	
	w	850.0	717.0	489.0	255.0	116.0	76.00	48.00	4.28	
9.60	А	84.0	68.0	45.6	24.0	10.3	6.60	4.20	2.04	
	w	901.0	730.0	490.0	259.0	114.0	75.00	49.00	4.11	





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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.

