



CHARACTERISTICS



Compact size ideal for any type of use.

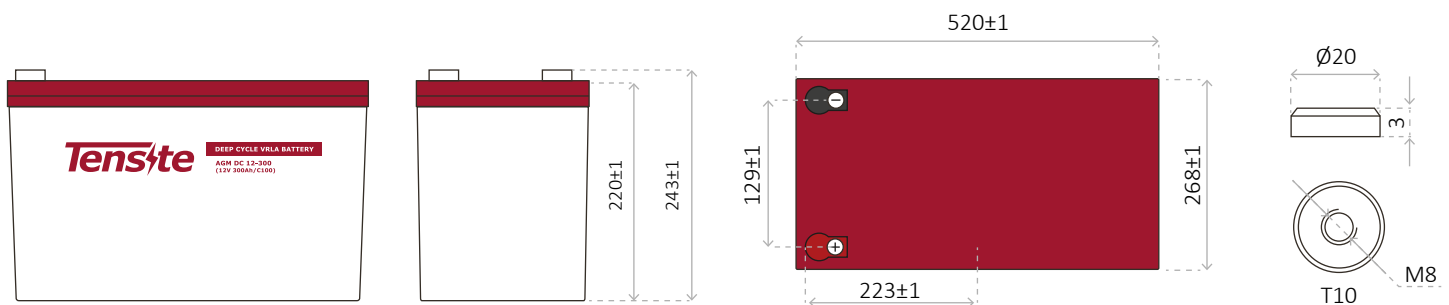


Great performance due to its Deep Cycle technology.



Perfect to use as accumulator in photovoltaic installations.

DIMENSIONS



AGM DEEP CYCLE BATTERY 12V 300 AH

DEEP CYCLE SERIES BATTERY

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 10 years floating design life at 25°C. Meet with IEC, BS,JIS and Eurobat standard, UL(MH62092), CE approved.



APPLICATION

- Emergency Power System
- Communication equipment
- Telecommunication systems
- Uninterruptible power supplies
- Power tools
- Marine equipment
- Medical equipment
- Solar and wind power system

GENERAL FEATURES

- Safety Sealing
- Non-spillable construction
- High power density
- Excellent recovery from Deep discharge
- Thick plates and high active materials
- Longer life and low self-discharge design

TECHNICAL SPECIFICATIONS

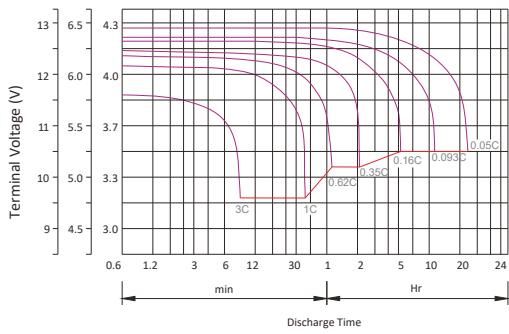
BATTERY MODEL	Nominal voltage			12V			
	Rated capacity (100 hour rate)			300Ah			
DIMENSION	Cells Per battery			6			
	Length 520 mm	Width 268 mm	Height 220 mm	Total Height 243 mm			
APPROX. WEIGHT	67.0 kg ± 3%						
CAPACITY @ 25°C	10 hour rate (25A, 10.8V) 250 Ah	5 hour rate (40A, 10.5V) 200 Ah	3 hour rate (62.5A, 10.2V) 187.5 Ah	1 hour rate (150A, 9.6V) 150 Ah			
	MAX. DISCHARGE CURRENT 2500 A (5 sec.)						
INTERNAL RESISTANCE	Full charged Vat 25°C: Approx. 3.5mΩ						
CAPACITY AFFECTED BY TEMP. (10 HR)	40°C 102%	25°C 100%	0°C 85%	-15°C 65%			
	After 3 months storage 91%		After 6 months storage 82%	After 12 months storage 64%			
CHARGE METHOD @25°C	Cycle Use 14.1-14.4V (Initial charging current less than 27A)			Float Use 13.50-13.80V			
	CONSTRUCTION	Container BS (UL94-HB) / Flame retardant ABS (UL94-V0)	Electrolyte Sulfuric acid	Separator Fiber glass	Positive Lead dioxide	Negative Lead	Safety valve EPDR

BATTERY DISCHARGE TABLE

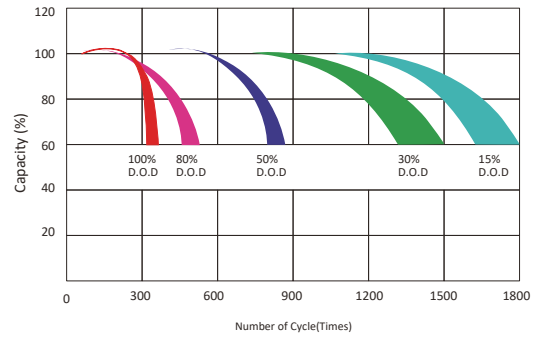
CONSTANT CURRENT (AMP) AND CONSTANT POWER (WATT) DISCHARGE TABLE AT 25 °C

F.V / TIME	5 min	10 min	15 min	30 min	1 hr	2 hr	3 hr	4 hr	5 hr	8 hr	10 hr	20 hr
9.60	A	801.0	528.0	425.0	285.0	150.0	87.5	64.3	50.0	41.30	29.25	14.18
	W	8264.0	5634.0	4560.0	3064.0	1620.0	961.0	715.0	563.0	469.00	335.00	164.80
10.20	A	776.0	476.0	401.0	272.5	141.0	83.5	62.5	48.8	40.50	28.50	13.75
	W	8282.0	5315.0	4482.0	3059.0	1595.0	962.0	724.0	567.0	472.00	333.00	161.30
10.50	A	750.0	426.0	350.0	255.0	136.5	81.5	61.0	48.0	40.00	28.25	13.75
	W	8193.0	4843.0	3997.0	2935.0	1581.0	945.0	711.0	562.0	469.00	332.00	162.50
10.80	A	723.0	401.0	326.0	235.0	132.0	79.5	59.5	47.3	39.00	27.50	13.50
	W	8112.0	4627.0	3750.0	2723.0	1536.0	931.0	702.0	558.0	461.00	326.00	160.80
11.10	A	699.0	376.0	301.0	210.0	127.5	77.5	57.5	46.0	38.00	26.75	12.75
	W	7924.0	4354.0	3498.0	2457.0	1499.0	916.0	683.0	548.0	453.00	320.00	154.50

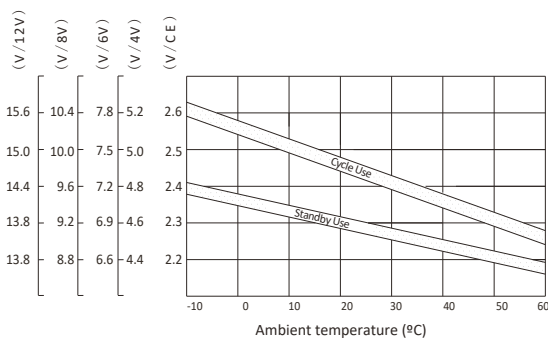
Discharge characteristic Curve



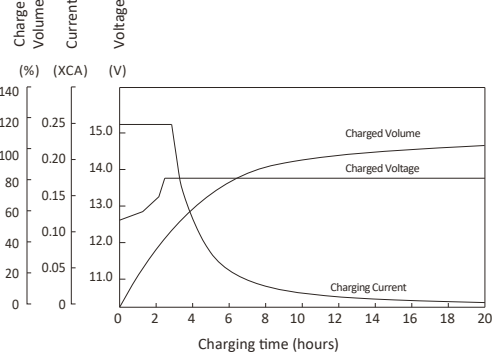
Cycle service life in relation to depth of discharge



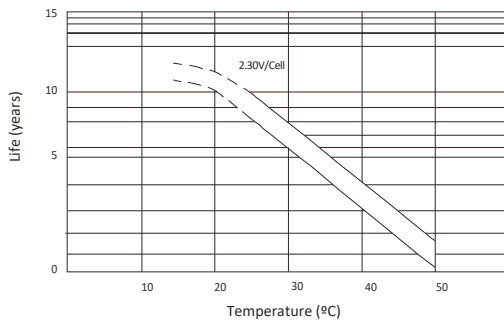
Relationship between charging voltage and temperature



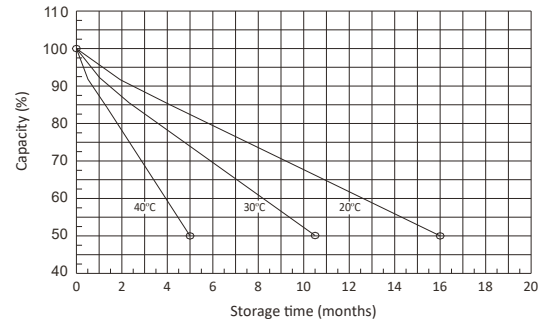
Constant voltage charging characteristic (0.25CA, at 25°C)



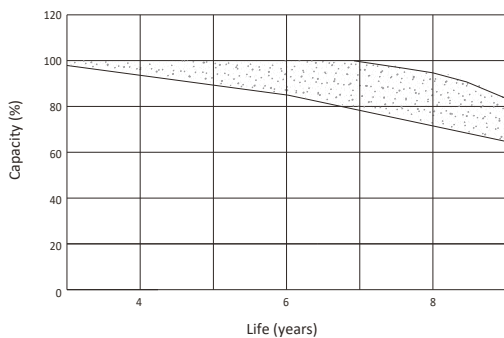
Temperature effects on float life



Self-discharge characteristic

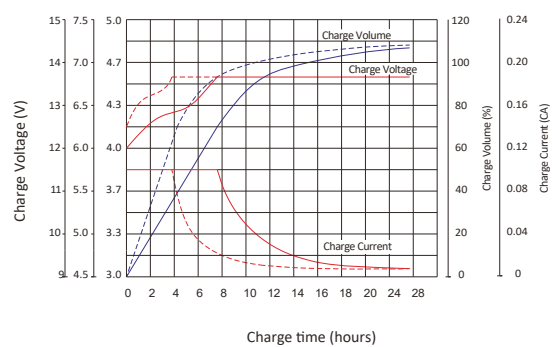


Life characteristics of standby use*



*Testing conditions:
Floating voltage 2.27 to 2.30V/Cell
Ambient temperature 25°C

Charge characteristic Curve for standby use**



**Discharge 100% (0.05CA 20h)
Charge 50% (0.05CA 10h)
Temperature 25°C
Charge Charge Voltage 2.275V/C
Charge Current 0.1CA