



### CHARACTERISTICS



Compact size ideal for any type of use.

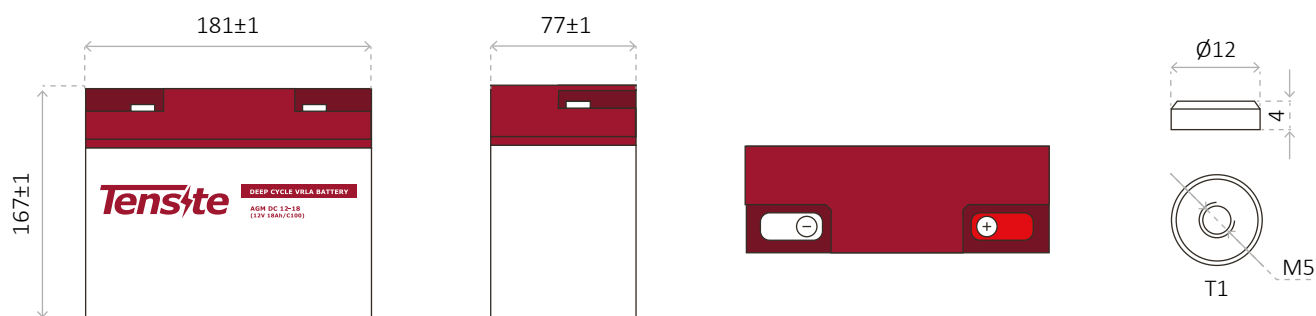


Great performance due to its Deep Cycle technology.



Perfect to use as accumulator in photovoltaic installations.

### DIMENSIONS



## AGM DEEP CYCLE BATTERY 12V 18 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

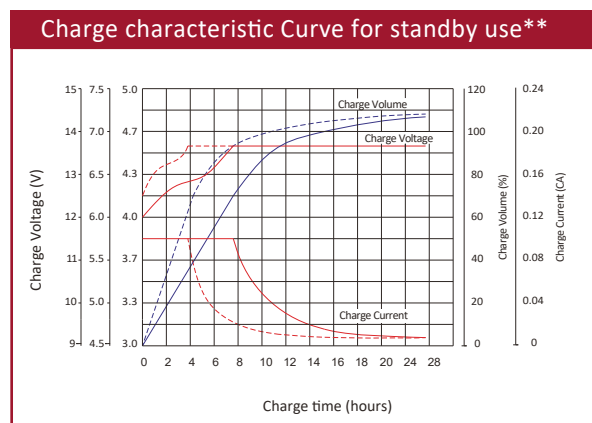
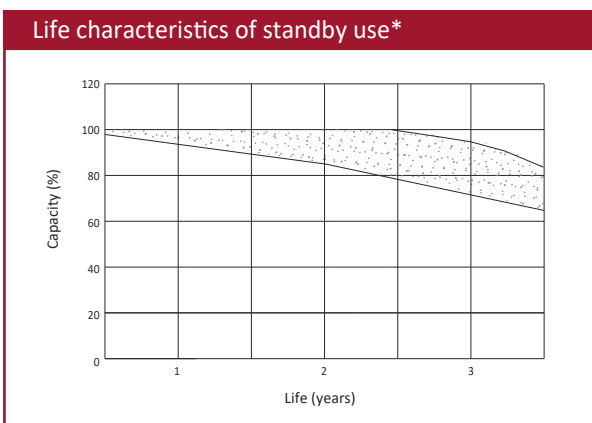
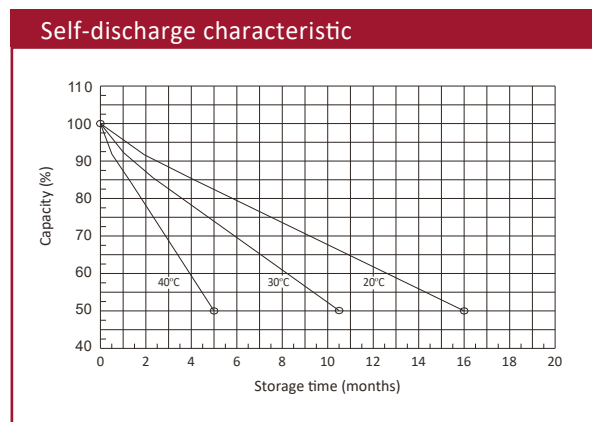
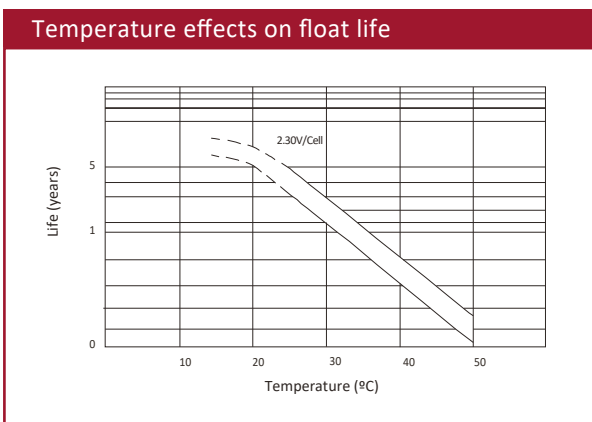
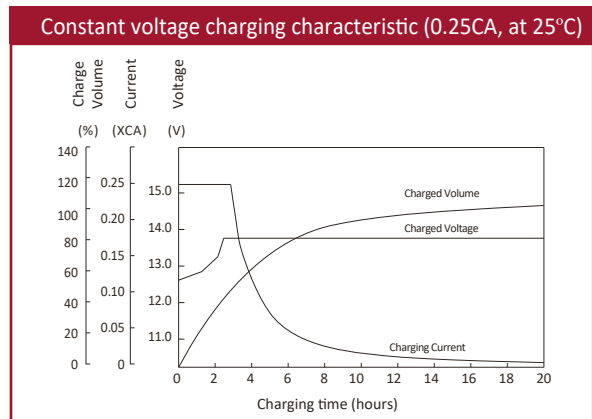
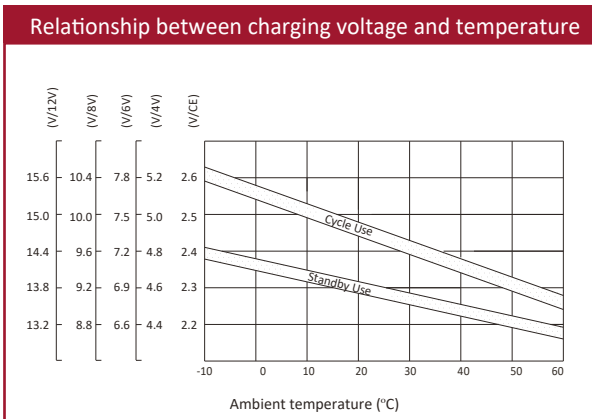
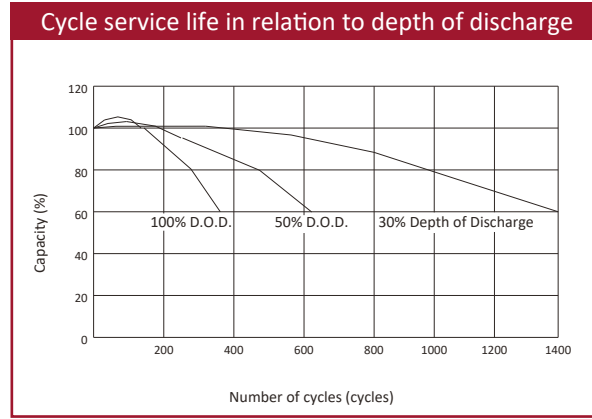
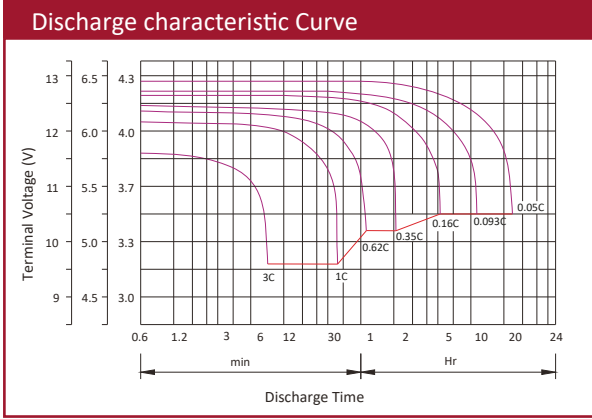
### TECHNICAL SPECIFICATIONS

<b>BATTERY MODEL</b>	<b>Nominal voltage</b>			12V			
	<b>Rated capacity (20 hour rate)</b>			18Ah			
	<b>Cells Per battery</b>			6			
<b>DIMENSION</b>	<b>Length</b>	<b>Width</b>	<b>Height</b>	<b>Total Height</b>			
	181 mm	77 mm	167 mm	167 mm			
<b>APPROX. WEIGHT</b>	5.3 kg ± 3%						
<b>CAPACITY @ 25°C</b>	<b>20 hour rate (0.9A, 10.5V)</b>	<b>10 hour rate (1.66A, 10.5V)</b>	<b>5 hour rate (3.06A, 10.5V)</b>	<b>1 hour rate (10.8A, 9.6V)</b>			
	18 Ah	16.6 Ah	15.3 Ah	10.8 Ah			
<b>MAX. DISCHARGE CURRENT</b>	270 A (5 sec.)						
<b>INTERNAL RESISTANCE</b>	Full charged Vat 25°C: Approx. 10.5mΩ						
<b>CAPACITY AFFECTED BY TEMP. (10 HR)</b>	<b>40°C</b>	<b>25°C</b>	<b>0°C</b>	<b>-15°C</b>			
	102%	100%	85%	65%			
<b>SELF DISCHARGE @25°C</b>	<b>After 3 months storage</b>		<b>After 6 months storage</b>	<b>After 12 months storage</b>			
	91%		82%	64%			
<b>CHARGE METHOD @25°C</b>	<b>Cycle Use</b>			<b>Float Use</b>			
	14.4-14.7V (Initial charging current less than 5.4A)			13.50-13.80V			
<b>CONSTRUCTION</b>	<b>Container</b>	<b>Electrolyte</b>	<b>Separator</b>	<b>Positive</b>	<b>Negative</b>	<b>Safety valve</b>	<b>Terminal</b>
	ABS (UL94-HB) / Flame retardant ABS (UL94-V0)	Sulfuric acid	Fiber glass	Lead dioxide	Lead	EPDR	Copper

### 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	64.80	42.50	31.50	20.70	10.80	6.30	4.64	3.72	3.16	2.08	1.70	0.93
	W	764.20	480.00	363.00	219.70	124.50	72.90	53.63	43.05	36.53	24.08	19.72	10.80
10.20	A	59.40	40.60	28.90	19.70	10.14	6.04	4.50	3.60	3.10	2.05	1.67	0.91
	W	719.20	454.50	341.20	218.30	117.00	70.00	52.12	41.70	35.85	23.70	19.35	10.50
10.50	A	54.10	38.00	27.00	19.00	9.81	5.93	4.42	3.42	3.06	2.03	1.66	0.90
	W	694.50	441.00	326.30	216.00	113.50	68.60	51.22	39.60	35.63	23.48	19.20	10.43
10.80	A	52.00	36.30	25.20	18.50	9.48	5.77	4.35	3.36	2.93	1.97	1.61	0.88
	W	609.00	427.50	314.20	215.20	110.30	67.20	50.63	39.11	34.05	22.50	18.75	10.20
11.10	A	48.00	34.20	23.40	18.00	9.15	5.63	4.13	3.30	2.80	1.92	1.58	0.86
	W	588.70	413.20	299.30	213.80	108.80	66.70	49.13	39.00	33.30	21.75	18.37	10.13



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

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