


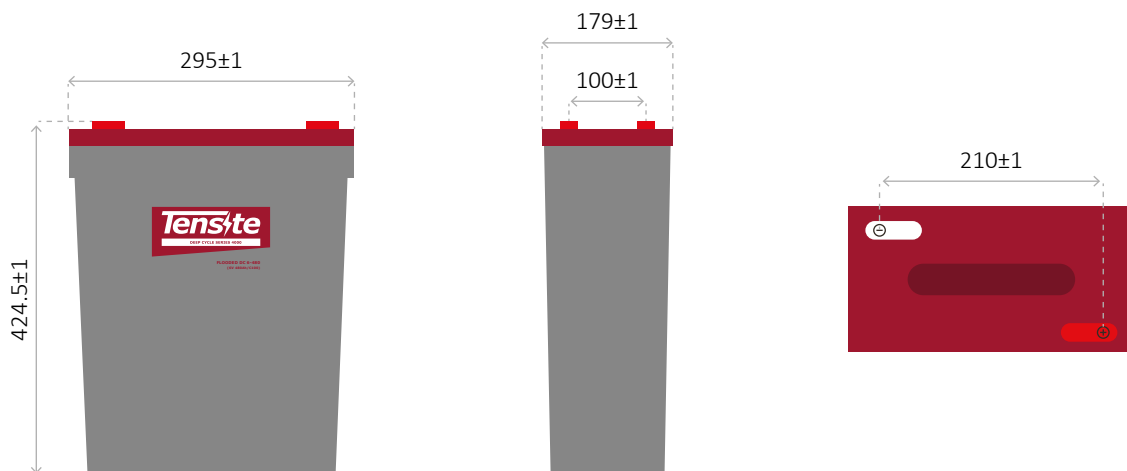




### CHARACTERISTICS

-  Ideal for any type of use.
-  Great performance due to its Deep Cycle technology.
-  Perfect to use as accumulator in photovoltaic installations.

### DIMENSIONS



## DEEP CYCLE GEL BATTERY 6V 500AH



### DEEP CYCLE SERIES BATTERY

The Tensite deep cycle gel battery adopts the advanced nano gel electrolyte with super-C additive plus heavy duty plates design inside. It has a longer service life even deep cycle discharge use and can provide optimum and reliable service under extreme condition such as high temperature and frequent power failure, thus it is highly suited for tropical area in outdoor applications such as Telecom BTS stations and Off-grid PV system.

### APPLICATION

- BTS Stations
- Solar and Wind energy system
- UPS system
- Telecom systems

### GENERAL FEATURES

- Able to operate at 40-60°C
- Integrated design to ensure the best uniformity and reliability
- Longer life and higher stability under high temperature environment (no air-con needed)
- Super-C additives: Deep discharge recovery capability, 1600cycles @50%DOD

### TECHNICAL SPECIFICATIONS

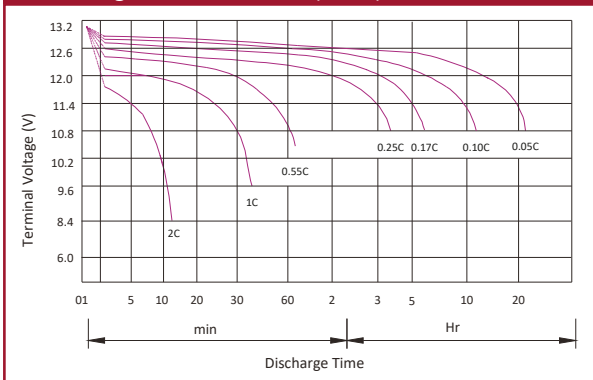
<b>BATTERY MODEL</b>	<b>Nominal voltage</b>			6V
	<b>Rated capacity (120 hour rate)</b>			510Ah
	<b>Cells Per battery</b>			6
<b>DIMENSION</b>	<b>Length</b> 295 mm	<b>Width</b> 178 mm	<b>Height</b> 404 mm	<b>Total Height</b> 424 mm
<b>APPROX. WEIGHT</b>	57.0 kg ± 3%			
<b>CAPACITY @ 25°C</b>	<b>10 hour rate (37.8A, 5.8V)</b> 378 Ah	<b>5 hour rate (66.8A, 5.25V)</b> 334 Ah	<b>1 hour rate (233.3A, 4.8V)</b> 233.3 Ah	
<b>MAX. DISCHARGE CURRENT</b>	1260 A (5 sec.)			
<b>INTERNAL RESISTANCE</b>	Full charged Vat 25°C: Approx. 1.5mΩ			
<b>CAPACITY AFFECTED BY TEMP. (10 HR)</b>	<b>40°C</b> 108%	<b>25°C</b> 100%	<b>0°C</b> 90%	<b>-15°C</b> 70%
<b>SELF DISCHARGE @25°C</b>	3% per month			
<b>CHARGE METHOD @25°C</b>	<b>Standby Use</b> 6.8-6.9V (Initial charging current less than 84A)		<b>Cycle Use</b> 7.2-7.45V	

### BATTERY DISCHARGE TABLE

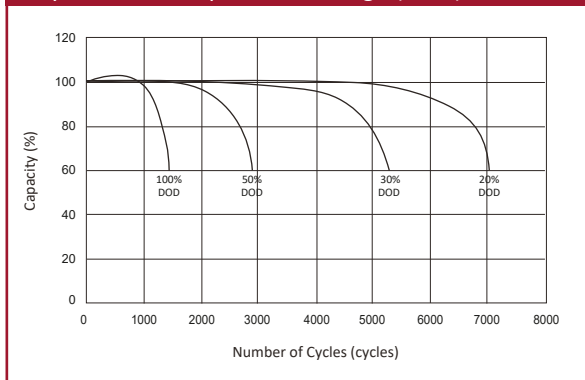
CONSTANT CURRENT (AMP) AND CONSTANT POWER (WATT) DISCHARGE TABLE AT 25 °C

F.V / TIME		15 min	30 min	45 min	30 min	2 hr	3 hr	4 hr	5 hr	8 hr	10 hr	20 hr
1.60	A	540.5	344.2	254.1	233.3	148.1	104.0	70.7	46.7	41.6	22.6	5.03
	W	1040.5	662.6	489.1	449.1	285.0	200.1	136.1	89.8	80.0	43.7	9.69
1.65	A	530.7	337.9	249.5	229.1	145.4	102.1	69.4	45.8	40.8	22.2	4.94
	W	1021.6	650.5	480.2	441.0	279.9	196.5	133.6	88.2	78.6	42.9	9.51
1.70	A	520.9	331.7	244.9	224.8	142.7	100.2	68.1	45.0	40.1	21.8	4.85
	W	1002.7	638.5	471.4	432.8	274.7	192.8	131.1	86.6	77.1	42.0	9.33
1.75	A	511.1	325.4	240.2	220.6	140.0	98.3	66.8	44.1	39.3	21.4	4.76
	W	983.8	626.4	462.5	424.6	269.5	189.2	128.6	84.9	75.7	41.2	9.15
1.80	A	491.4	312.9	231.0	212.1	134.6	94.5	64.3	42.4	37.8	21.0	4.66
	W	945.9	602.3	444.7	408.3	259.1	181.9	123.7	81.7	72.8	40.4	8.97

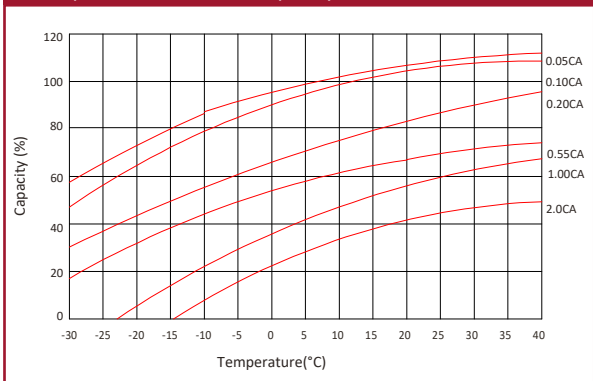
Discharge characteristics (25°C)



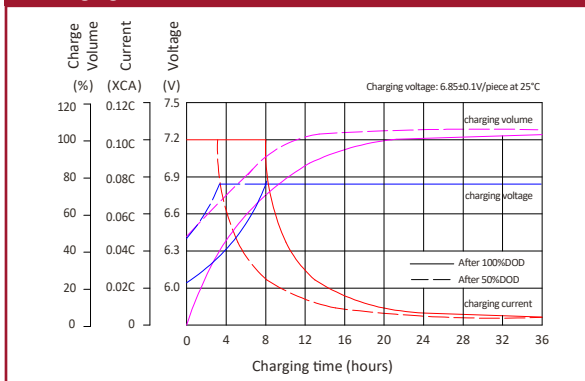
Cycle life vs. Depth of discharge (25°C)



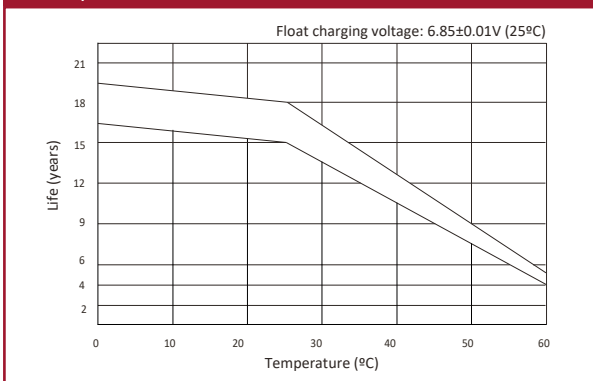
Temperature effect on capacity



Charging characteristics



Temperature effects on float life



Temperature effect on battery self-discharge

