


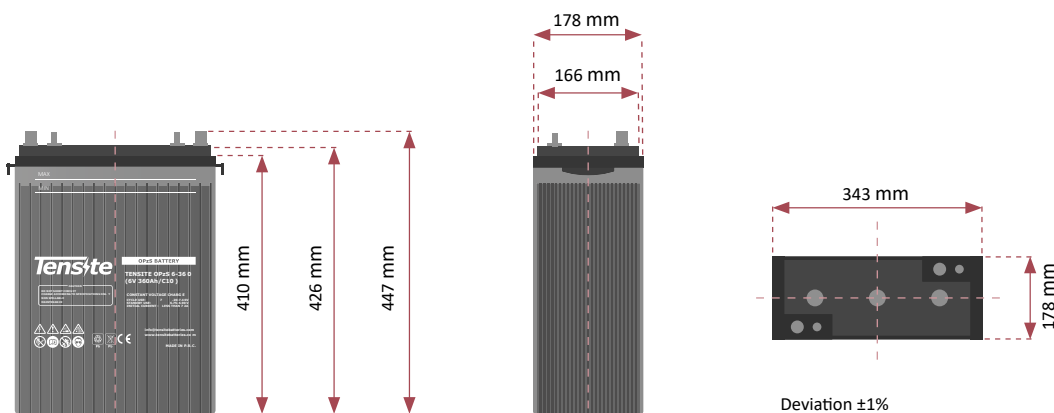




CHARACTERISTICS

-  High quality transparent containers for easy maintenance.
-  8 years design life due to its tub ular plate flooded battery.
-  Perfect to use as accumulator in photovoltaic installations.

DIMENSIONS



Complied standars
IEC 60896-21/22
UL1989
JIS C8704
GB/T19639

OPzS 6V 600Ah Stationary battery

TUBULAR FLOODED SERIES BATTERY

The OPzS series is a traditional tubular plate flooded battery which offers 8 years design life according to the standard IEC60896-11. With a new design and technical improvement, it offers maximum efficiency and reliability for the widest variety of applications. This series is highly suited for all standby power application that require the highest levels and security of reliability.



APPLICATION

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

RECOMMENDATIONS

- Check voltage every 3 months
- Use automatic chargers with constant voltage
- Avoid exposure to sub-zero temperatures
- Use the appropriate cable section and length
- Keep connections tight

TECHNICAL SPECIFICATIONS

BATTERY MODEL	Nominal voltage	6 V	
	Rated capacity (15 min rate)	88 W	
DIMENSIONS	Nominal Capacity (20°C)	600 Ah @ C100 (a 1.75 Vpc)	
		L343mm x A178mm x Al426mm	
APPROX. WEIGHT	Without electrolyte	With electrolyte	
	42,5 kg (93.5lbs)	59,25 kg (130.35lbs)	
ELECTROLYTE	Diluted sulphuric acid f 1.240 g/cm (20°C) Peso ácido: 16,75 kg		
CHARGING	MAX. DISCHARGE CURRENT	MAX. DISCHARGE CURRENT	
	1500 A (5 seg.)	90 A	
INTERNAL RESISTANCE	Approx: 1.85mOhm (fully charged @25°C)		
TERMINAL	Female Copper Insert M8 (torque: 10~12N.m)		
SHORT CIRCUIT CURRENT	4300 A		
DESIGN LIFE (20°C)	8 years		
VOLTAGE	FLOAT CHARGE VOLTAGE	EQUALIZE CHARGE VOLTAGE	
	6,8V - 6,9V 20°C~25°C	7,2V - 7,4V 20°C~25°C	
	Temperature Compensation: -3mV/°C/Cell	Temperature Compensation: -5mV/°C/Cell	
OPERATING TEMPERATURE RANGE	DISCHARGE	CHARGE	STORAGE
	-25°C ~ 65°C	-20°C ~ 65°C	-15°C ~ 40°C
SELF DISCHARGE	Approx. 4% per month @ 20°C		
CONTAINER MATERIAL	SAN		

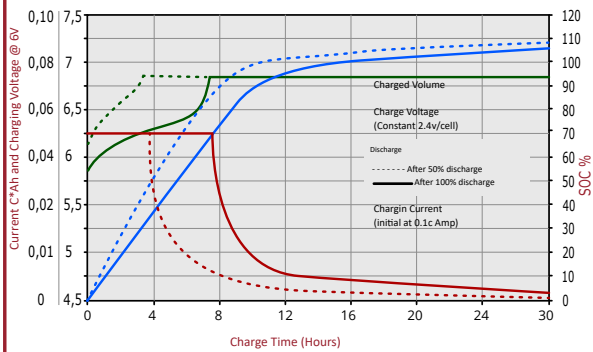
BATTERY DISCHARGE TABLE

F.V / TIME		CONSTANT CURRENT (A) AND CONSTANT POWER (WPC) DISCHARGE TABLE AT 25 °C							
		30 min	60 min	90 min	3 hr	5 hrs	8 hrs	10hrs	20 hrs
1.60	A	324.00	198.00	144.91	44.86	30.61	45.87	37.55	21.32
	W	645.41	395.01	289.35	89.75	61.25	91.78	74.74	42.66
1.65	A	317.08	196.57	143.48	44.62	30.44	45.48	36.77	20.25
	W	631.93	392.17	286.55	89.44	61.02	91.20	73.73	40.61
1.70	A	314.31	195.13	143.33	44.51	30.44	45.03	36.31	19.17
	W	626.44	389.78	286.38	89.24	61.03	90.33	72.84	39.54
1.75	A	308.77	192.26	141.47	44.23	30.28	44.90	36.00	19.40
	W	615.85	385.00	282.94	88.73	60.73	90.14	72.27	38.95
1.80	A	301.85	190.83	140.47	43.99	30.19	44.52	35.42	18.76
	W	602.31	382.61	281.63	88.30	60.59	89.43	71.16	37.69

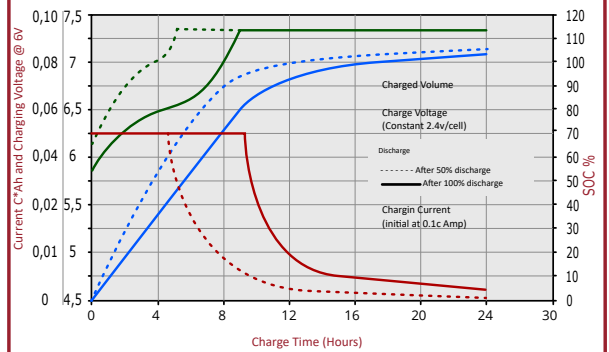
FINAL VOLTAGE SETTINGS RECOMMENDED ACCORDING TO THE DISCHARGE CURRENT					
DISCHARGE CURRENT I (A)	I ≤ 0.08C	0.08 ≤ I < 0.2C	0.2 ≤ I < 0.6C	0.6C ≤ I < 1.0C	I ≥ 1.0C
FINAL OF VOLTAGE	≥ 1.85 Vpc	≥ 1.80 Vpc	≥ 1.75 Vpc	≥ 1.70 Vpc	≥ 1.60 Vpc

USE IN FLOTATION: The battery is connected to the charger continuously keeping the charge at 100% ready for discharges at specific times. This is the case of alarms, UPS or UPS systems, backup systems, backup in telecommunications. **USE IN CYCLES:** The battery is charged and discharged, repeating this cycle usually. This is the case of photovoltaic installations for residential use (day / night), electric cars and applications which is consumed when there is no load availability. The starting of combustion engines would be an application that combines both types of use.

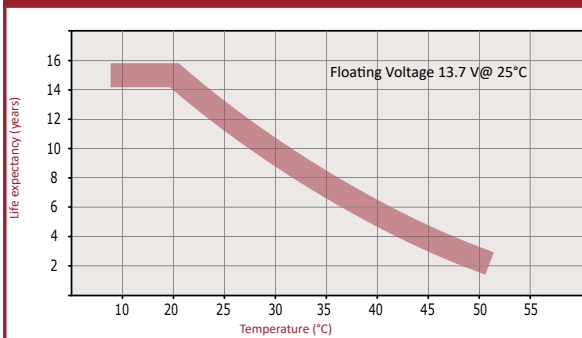
Float Use: Charging Characteristic



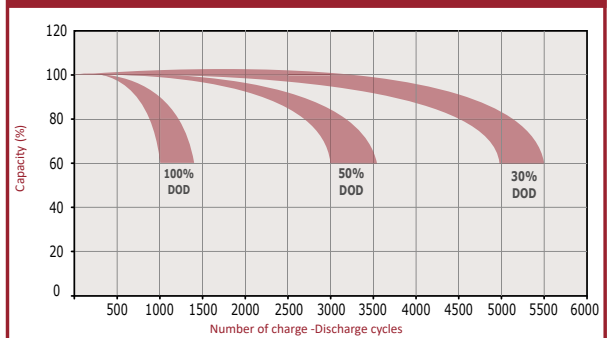
Cycle use: Charging Characteristics



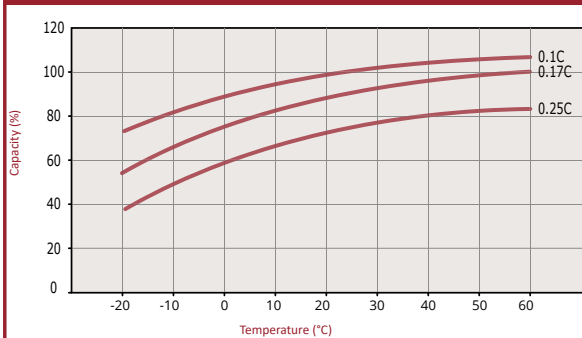
Temperature vs Float life



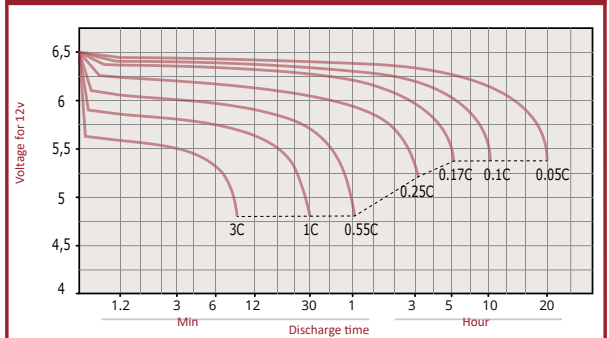
Cycle life in relation to depth of discharge



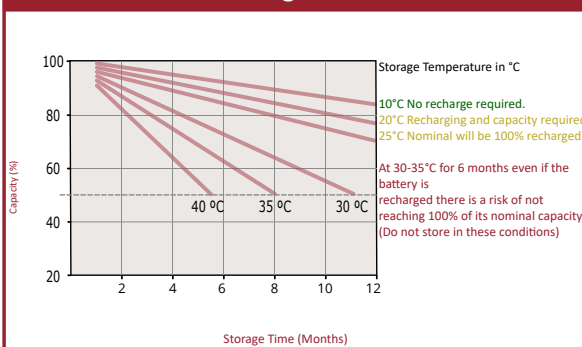
Temperature effects in relation to battery capacity



Discharge characteristics (25°C / 77°F)



Self-Discharge characteristics



Charging voltage and temperature

