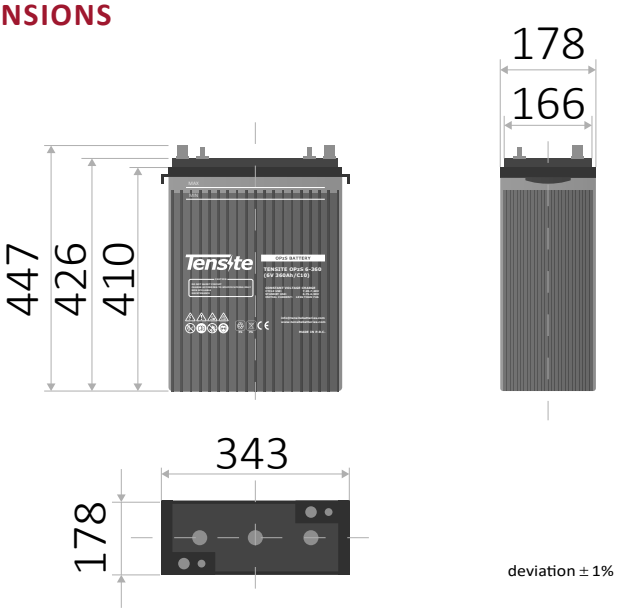
OPzS 6V 600Ah

CHARACTERISTICS

- High quality tranparent 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



deviation ± 1%

ISO9001 ISO14001

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

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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
- Avoid exposure to sub-zero temperatures
- Use automatic chargers with constant voltage
- Use the apropriate cable section and length
- Keep connecons tight

TECHNICAL SPECIFICATIONS

BATTERY MODEL	**Nominal voltage**	6V	
	Rated capacity (15 min rate)	88W	
	Nominal Capacity (20ºC)	600 Ah @ C100 (to 1.75Vpc)	
APPROX. WEIGHT	**Without electrolyte**	**With electrolyte**	
	42.5 kg (93.5 lbs)	59.25 kg (130.35 lbs)	
DIMENSIONS	L343mm x W178mm x H426mm		
ELECTROLYTE	**Diluted sulphuric acid f 1.240 g/cm (20ºC)**		
	Acid weight: 16.75 Kg		
CHARGING	**MAX. DISCHARGE CURRENT**	**MAX. CHARGING CURRENT**	
	1500 A (5s)	90 A	
INTERNAL RESISTANCE	Approx: 1.85mOhm (fully charged @25ºC)		
TERMINAL	Female Copper Insert M8 (torque: 10~12N.m)		
SHORT CIRCUIT CURRENT	4300 A		
DESIGN LIFE (20ºC)	8 years		
VOLTAGE	**FLOAT CHARGE VOLTAGE**	**EQUALIZE CHARGE VOLTAGE**	
	6.8V – 6.9V 20ºC~25ºC Temperature Compensation: -3mV/ºC/Cell	7.2V – 7.4V 20ºC~25ºC Temperature Compensation: -5mV/ºC/Cell	
OPERATING TEMPERATURE RANGE	**DISCHARGE**	**CHARGE**	**STORAGE**
	-25ºC ~ 65ºC	-20ºC ~ 65ºC	-15ºC ~ 40ºC
SELF DISCHARGE	Approx. 4% per month @ 20ºC		
CONTAINER MATERIAL	SAN		

BATTERY DISCHARGE TABLE

CONSTANT CURRENT (A) AND CONSTANT POWER (WPC) DISCHARGE TABLE AT 25 ºC

F.V / TIME		30 min	60 min	90 min	2 hr	3 hr	5 hr	8 hr	10 hr	20 hr
1.60	A	324.00	198.00	144.91	62.97	44.86	30.61	45.87	37.35	21.32
	W	645.41	395.01	289.35	126.00	89.75	61.25	91.78	74.74	42.66
1.67	A	317.08	196.57	143.48	62.66	44.62	30.44	45.48	36.77	20.25
	W	631.93	392.17	286.55	125.48	89.44	61.02	91.20	73.73	40.61
1.70	A	314.31	195.13	143.33	62.50	44.51	30.44	45.03	36.31	19.17
	W	626.44	389.78	286.38	125.21	89.24	61.03	90.33	72.84	39.54
1.75	A	308.77	192.26	141.47	62.11	44.23	30.28	44.90	36.00	19.40
	W	615.85	385.00	282.94	124.41	88.73	60.73	90.14	72.27	38.95
1.80	A	301.85	190.83	140.47	61.72	43.99	30.19	44.52	35.42	18.76
	W	602.31	382.61	281.63	123.65	88.30	60.59	89.43	71.16	37.69
1.85	A	293.54	187.86	138.89	61.17	43.60	30.02	43.94	34.84	18.12
	W	586.15	377.42	279.16	122.60	87.60	60.32	88.35	70.06	36.44

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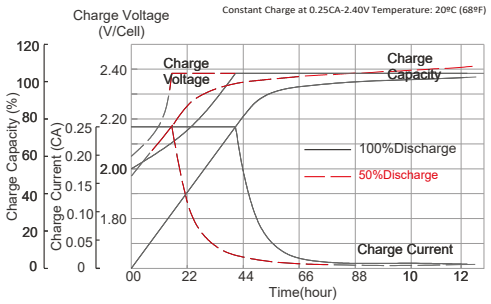
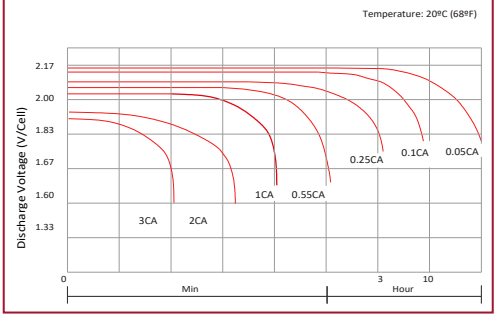
BATTERY CHARACTERISTICS

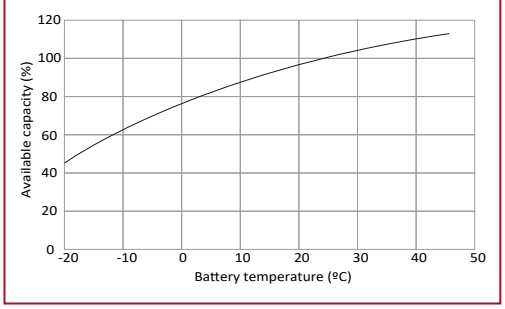
Charge characteristics



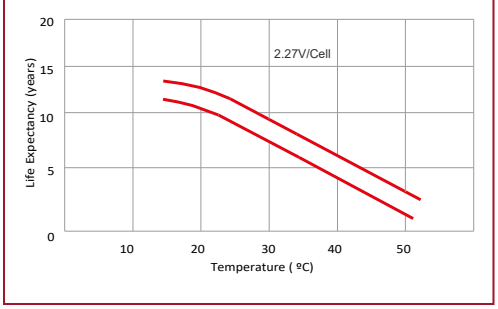
Discharge characteristics curve



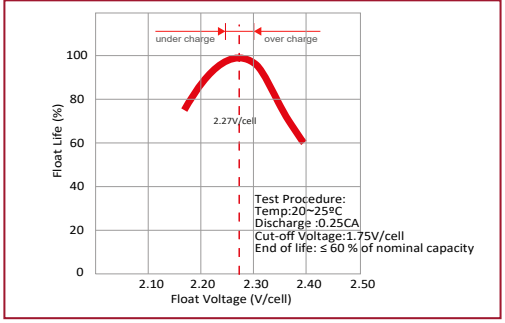
Temperature effects in realtion to battery capacity



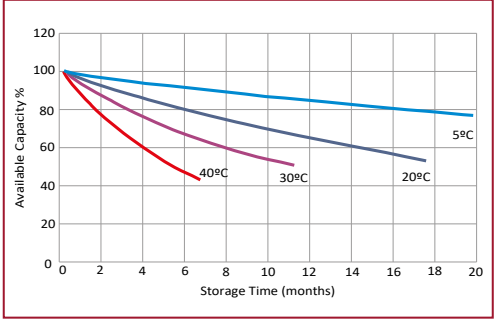
Effect of temperature on long term float life



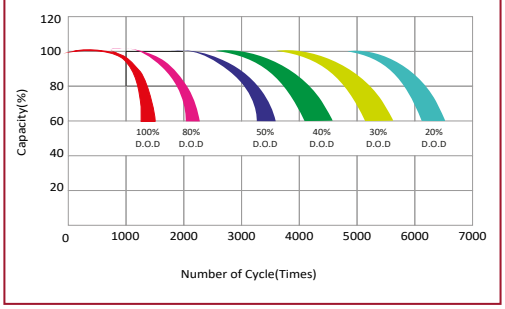
Float voltage vs Float Life

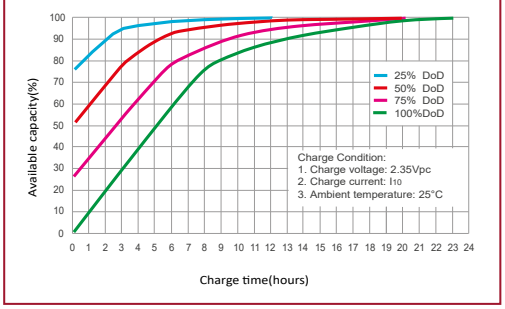


Self discharge characteristics



Life characteristics of cyclic use





FINAL VOLTAGE SETTINGS RECOMMENDED ACCORDING TO THE DISCHARGE CURRENT

Discharge Current I (A)	I ≤ 0.08C	0.08C ≤ I < 0.2C	0.2C ≤ I < 0.6C	0.6C ≤ I < 1.0C	I ≥ 1.0C
Final of Voltage	≥ 1.85Vpc	≥ 1.80Vpc	≥ 1.75Vpc	≥ 1.70Vpc	≥ 1.60Vpc

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