

OPS2-600 (OPzS2V600AH)

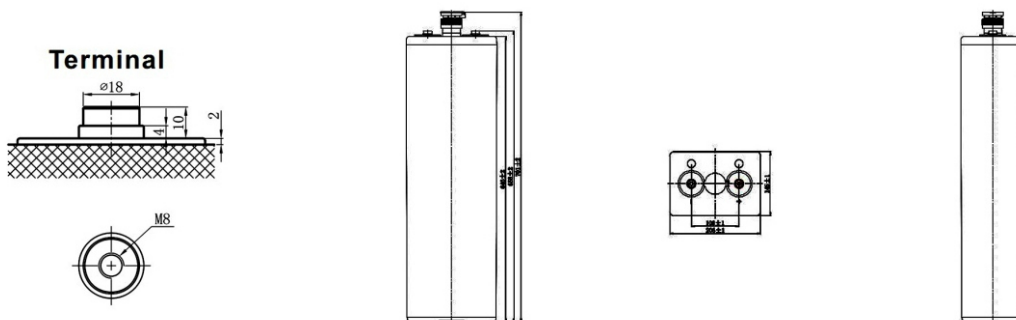
SunStone OPS series is flooded battery with Tubular Plate technology to offer high reliability and performance. The battery is designed and manufactured according to DIN standards and with die-casting positive grid and patent formula of active material. OPS series exceeds DIN standard values with more than 25 years floating design life at 25 °C and is even more suitable for cyclic use under extreme operating conditions.



Specification

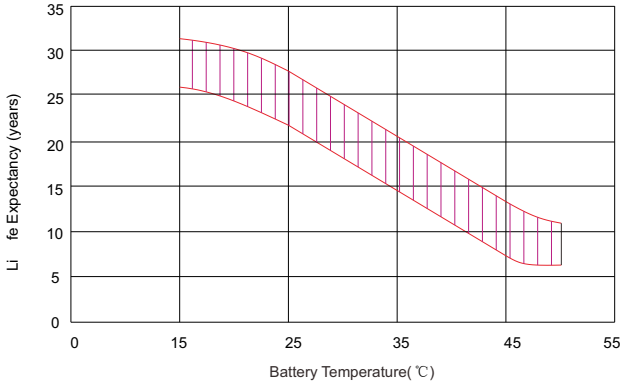
Nominal Voltage	2V	
Capacity(10HR)	643.0AH (1.8V/cell,20°C)	
Dimension	Length	145±2mm(5.71 inches)
	Width	206±3mm(8.11 inches)
	Container Height	646±2mm(25.4 inches)
	Total Height(with Terminal)	701±2mm(27.6 inches)
Approx Weight	Without Electrolyte 35.3kg (77.8lbs)	
	With Electrolyte 47.0kg (103.6lbs)	
Container Material	SAN transparent container	
Rated Capacity	643.0AH/64.3A	(10hr,1.80V/cell,25°C/77°F)
	564.5AH/112.9A	(5hr,1.75V/cell,25°C/77°F)
	481.8AH/160.6A	(3hr,1.75V/cell,25°C/77°F)
	396.0AH/396.0A	(1hr,1.60V/cell,25°C/77°F)
Max.Discharge Current	4800A(5s)	
Internal Resistance	Approx 0.35mΩ	
Operating Temp.Range	Discharge : -15~55°C (5~131°F)	
	Charge : 0~45°C (32~131°F)	
	Storage : -15~45°C (5~131°F)	
Type and number of poles	M8/2	
Charging	Floating voltage:2.23V~2.25V at 20°C(68°F)Temp	
	Boost charge:2.30V~2.40V at 20°C(68°F)Temp	
	Charging Current(max.):0.1CA	
	Temp.Coef cient -3mV/C	
Capacity affect by Temperature	40 °C (104 °F)	103%
	25 °C (77 °F)	100%
	0 °C (32 °F)	88%
Self Discharge (4% per month)	Sunstone OPzS batteries may be stored for up to 6 months at 20°C(68°F) and then a freshening charge is required . For higher temperatures the time interval will be shorter.	
Alloy for positieplatef	Low Antimony alloy Antimon <1.6%	

Dimensions

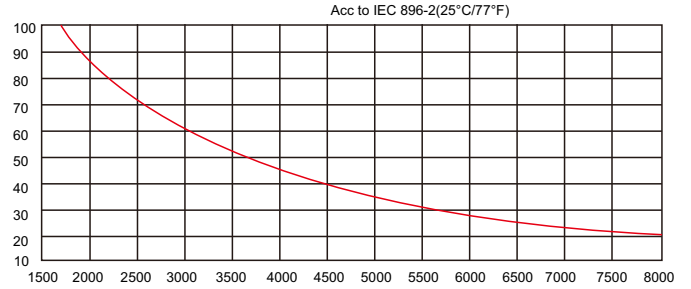


OPS2-600(OPzS2V600AH)

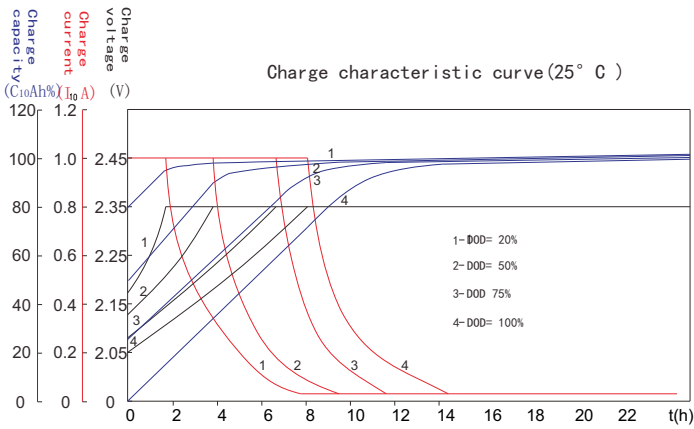
Effect of temperature on long term float life



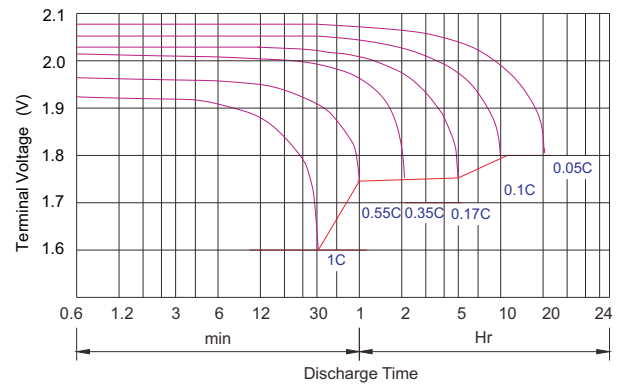
Cycle Life in Relation to Depth Discharge



Charge characteristic Curve for standby use



Discharge characteristic Curve



Constant Current Discharge Characteristics : A(25°C)

F.V/ Time	30min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85	322.3	250.5	180.3	140.6	118.1	102.3	91.1	73.5	61.2	34.3
1.80	403.0	300.0	203.0	153.5	128.3	109.1	96.8	77.4	64.3	35.7
1.75	464.4	327.0	213.6	160.6	132.6	112.9	99.0	79.0	65.8	36.1
1.70	507.6	351.6	222.6	165.4	136.1	115.8	101.3	80.4	66.9	36.5
1.65	542.4	375.6	230.7	170.0	139.1	118.3	102.9	81.8	67.7	36.9
1.60	585.6	396.0	238.8	176.0	142.7	120.7	104.7	83.1	68.8	37.5

Constant Power Discharge Characteristics : W(25°C)

F.V/ Time	30min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85	597.2	468.8	340.1	266.5	224.7	195.5	175.1	141.8	118.6	66.8
1.80	734.3	553.2	378.7	287.9	241.7	206.7	184.5	148.2	123.6	68.9
1.75	834.9	595.5	394.9	298.9	248.3	212.9	187.5	150.3	125.9	69.3
1.70	897.4	634.2	408.6	305.9	253.5	217.4	191.3	152.5	127.4	69.7
1.65	946.0	672.4	421.6	312.9	258.2	221.2	193.6	154.5	128.4	70.3
1.60	999.6	703.1	434.2	322.3	263.7	224.6	196.0	156.3	129.8	71.0

All mentioned values are average values.