

OPzS21000 (2V100Ah)

OPzS Series Battery

NAPEL OPzS battery is a traditional tubular plate flooded stationary battery, low maintenance, acid-proof and explosion-proof, Performances meet & exceed the standards specified in DIN40736. This type battery is most suited for all standby power applications that require the highest levels of reliability and security.

Application

- *Telecommunication equipment;
- *UPS power supply;
- *Solar power system;
- *Wind power system;
- *Electronic instruments Fire alarm and security devices.

NAPEL POWER

General Features

- *Stable Quality & High Reliability
- *Sealed Construction
- *Long Service Life
- *Low Maintenance Operation
- *Low Pressure Venting System
- *Heavy Duty Grids
- *Low-self Discharge

Specification

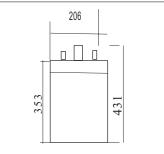
Construction

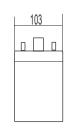
*Positive Plates: Robust tubular plates consisting of Pb-Sb multi-alloy;

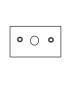
- *Negative Plates: Grid plate construction consisting of lead calcium alloy;
- *Separator: Combined porous rubber and porous PVC separator;
- *Container: transparent container with AS material Anti-corrosive, flame retardant;
- *Acid-proof bolt: Filters acid smog and flame retardant; *Terminals: cooper.

	Nominal Voltage	2V					
Battery Model	Rated capacity(10 Hour rate)	100Ah					
	Length	Width	Height	Total Height			
Dimensions	103mm (4.06 inches)	206 mm(8.11 inches)	353mm(13.90 inches)	431 mm (16.97 inches			
Approx Weight		8.5kg(18.74lbs)±3% (DRY)	•			
Capacity 25℃	10 Hour rate(1.8V, 10A)	5Hour rate(1.75V,18A)	3 Hour rate(1.70V,25.7A)	1 Hour rate (1.60V, 56A)			
(77°F)	100Ah	90Ah	77Ah	56Ah			
Maximum discharge	e current		200A(5 sec.)				
Internal Resistance		Full charged at 25 $^{\circ}$ C (77 $^{\circ}$ F): Approx 1.35m Ω					
Capacity affected	40°C (104 °F)	$40^{\circ}C(104^{\circ}F)$ $25^{\circ}C(77^{\circ}F)$ $0^{\circ}C(32^{\circ}F)$		-15℃ (5°F)			
by Temp. (10 HR)	102%	100%	85%	65%			
Self Discharge at 25℃ (77°F)	After 3 month	ns storage	After 6 months storage	After 12 months storage			
	91%)	82%	64%			
Charge method 25℃ (77°F)	Cycle chargin	ng voltage	Float charging voltage				
	2.35-2.40V (Temperature of	compensation:-5mV/°C)	2.20-2.40V (Temperature	-15°C (5°F) 65% After 12 months storage 64% ng voltage			

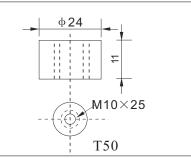
• Outer dimensions(mm)







Terminal Type (mm)

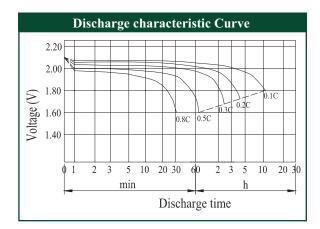


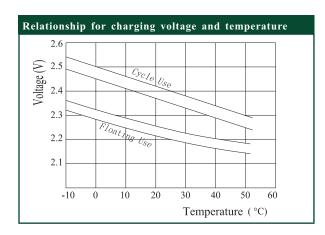
		Cons	tant Curre	nt(Amp) a	nd Consta	ant Power(Watt) Discl	harge Tab	le at 25℃	(77°F)		
Time		30min	60min	2hr	3hr	4hr	5hr	6hr	8hr	10hr	20hr	24hr
1.60V A	Α	82	56	34	26	21.1	18.5	15.7	12.0	10.2	5.5	4.8
	W	153	106	65	51	41.3	36.4	31.0	23.8	20.3	11.0	9.6
4.051/	Α	80	55	33	26	20.9	18.4	15.6	11.9	10.2	5.5	4.8
1.65V	W	150	105	64	51	41.0	36.2	30.8	23.7	20.2	11.0	9.6
4 701/	Α	78	54	33	26	20.6	18.1	15.4	11.8	10.1	5.5	4.8
1.70V	W	146	102	64	50	40.5	35.7	30.4	23.3	20.2	10.9	9.6
1.75V	Α	76	53	33	26	20.5	18.0	15.3	11.7	10.1	5.4	4.7
1.750	W	142	100	63	50.0	40.2	35.5	30.1	23.2	20.0	10.9	9.5
1.80V	А	73	51	32	25	19.9	17.5	14.8	11.3	10.0	5.4	4.7
	W	137	97	61	49	39.0	34.4	29.2	22.5	19.9	10.8	9.5

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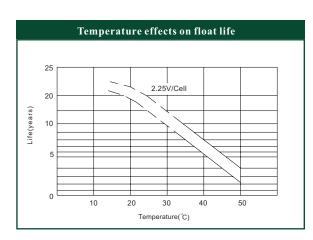
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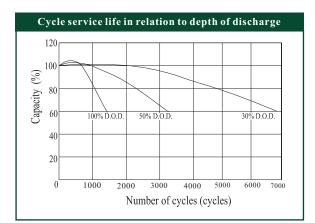


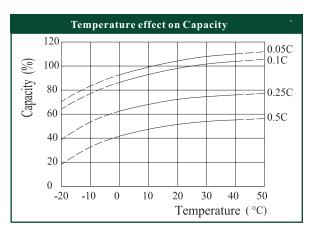


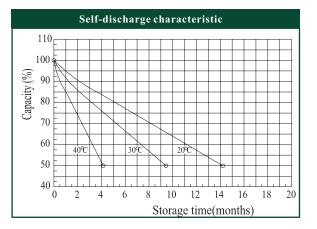


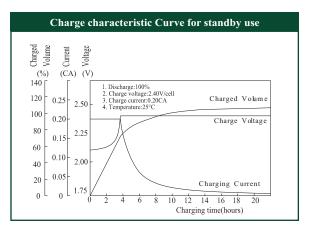
Rela	tionsł	ip for Op	oen Cir	cuit V	oltage a	and Re	sidual C	Capacit	y 25
2	2.20								
Open Circuit Voltage (V) 007 081 081	2.10				(25 °C/7	7 °F)			
	2.00			_	(25 6)1			F	
	1.90 =								
0	1.80								
1	1.70								
	0	1	20	4	0	60		80	10











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