# 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.

# General Features

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

### 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.

# Specification

D-44 M - d-1	Nominal Voltage	2V						
Battery Model	Rated capacity (10 Hour rate)	250Ah						
	Length	Width	Height	Total Height				
Dimensions	124mm (4.88 inches)	206mm(8.11 inches)	353mm(13.90 inches)	431 mm (16.97 inches)				
Approx Weight	15.0kg(33.07lbs)±3% (DRY)							
Capacity 25°C	10 Hour rate(1.8V, 25A)	5Hour rate(1.75V,45.0A)	3 Hour rate(1.70V,64.2A)	1 Hour rate (1.60V, 140A)				
(77°F)	250Ah	225Ah	192.6Ah	140 Ah				
Maximum discharge	current	500A(5 sec.)						
Internal Resistance	Full charged at 25 °C (77°F): Approx 0.75mΩ							
Capacity affected	40°C (104 °F)	25°C (77°F)	0°C (32°F)	-15°C (5°F)				
by Temp. (10 HR)	102%	100%	85%	65%				
Self Discharge at 25°C (77°F)	After 3 mont	hs storage	After 6 months storage	After 12 months storage				
	91%	ó	82%	64%				
Charge method 25°C (77°F)	Cycle chargir	ng voltage	Float charging voltage					
	2.35-2.40V (Temperature	compensation:-5mV/°C)	2.20-2.40V (Temperature compensation:-3mV/°C)					

#### Outer dimensions(mm) Terminal Type (mm) 206 124 пПп пПп $\circ \circ \circ$ 3 ო 4 M10×25 9 3 T50

Constant Current(Amp) and Constant Power(Watt) Discharge Table at 25 $^\circ$ C (77 $^\circ$ F )												
Time		30min	60min	2hr	3hr	4hr	5hr	6hr	8hr	10hr	20hr	24hr
1.60V	Α	205.0	140.0	83.7	65.5	52.6	46.2	39.3	30.0	25.5	13.7	12.0
	W	383.0	266.0	162.0	128.0	103.0	91.1	77.4	59.5	50.6	27.5	24.0
1.65V	Α	201.0	138.0	83.2	65.1	52.3	45.9	39.1	29.9	25.4	13.7	11.9
	W	376.0	262.0	161.0	128.0	103.0	90.5	76.9	59.1	50.5	27.4	24.0
1.70V	Α	195.0	134.0	82.5	64.2	51.6	45.3	38.5	0.5	25.3	13.7	11.9
	W	364.0	255.0	159.0	126.0	101.0	89.3	75.9	58.3	50.4	27.4	23.9
1.75V	Α	190.0	132.0	81.3	63.8	51.3	45.0	38.3	29.3	25.2	13.6	11.8
	W	355.0	250.0	157.0	125.0	100.0	88.7	75.4	57.9	50.1	27.2	23.8
1.80V	Α	183.0	128.0	79.2	61.8	49.7	43.7	37.1	28.4	25.0	13.5	11.8
	W	342.0	243.0	153.0	121.0	97.4	86.0	73.1	56.2	49.8	27.0	23.6















