

OPzS Series

NARADA OPzS Series Lead Acid batteries are designed with a combination of die-casting Tubular positive framework and superfluous electrolyte technologies to offer a very high lever of reliability and a long service life.

OPzS batteries used special filter and proof design to ensure no acid fog runs over and burning proof, and also convenient examine and maintenance.

The specification of Narada OPzS series batteries make if idea for a wide range of applications such as Telecommunications, Photovoltaic System, Security System, emergency lighting and UPS.

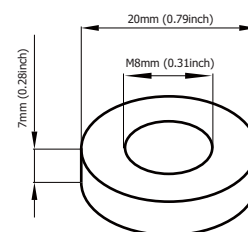
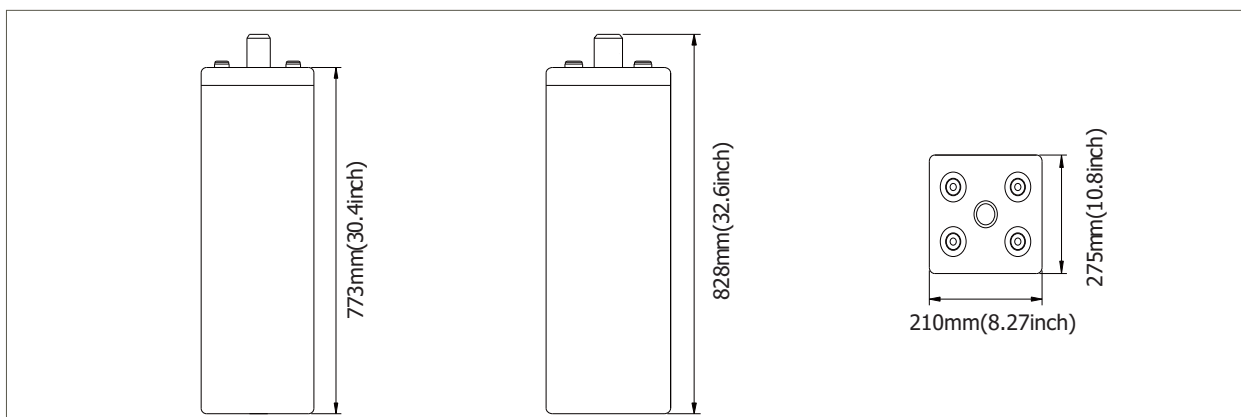
Features & Benefits

- Low maintenance.
- Super long service life.
- Transparent containers, convenient to observe.
- Special filter installation for acid fog proof.
- High quality and high reliability.
- Special pole sealed technology.
- DIN40736-1 compliant.

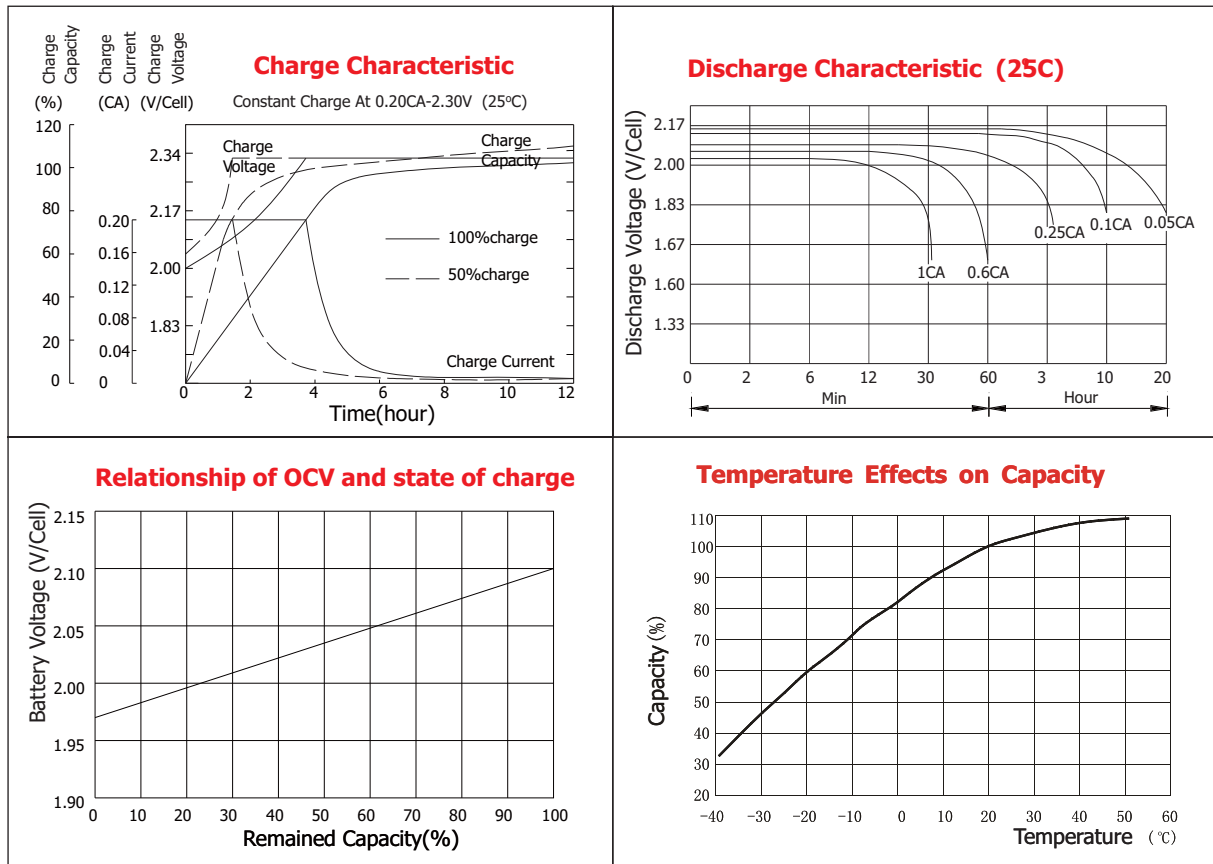
Construction

ComponentRaw material
PositiveLead dioxide
NegativeLead
ContainerSAN
CoverABS

TerminalCopper
SeparatorRubber-PVC
ElectrolyteSulfuric acid

**Terminal Dimensions****Cell Dimensions**

Battery Model	12OPzS1500			
Designed Floating Life	20 Years			
Capacity(25°C)	24HR(67.2A,1.80V)	10HR(150A,1.80V)	5HR(250A,1.80V)	1HR(795A,1.75V)
	1613AH	1500AH	1250AH	795AH
Dimensions	Length	Width	Height	Total Height
	275mm(10.8inch)	210mm(8.27inch)	773mm(30.4inch)	828mm(32.6inch)
Approx. Weight	without electrolyte: 81.7Kg (180 lbs) with electrolyte: 112Kg(247lbs)			
Internal Resistance	Full charged at 20C: 0.00026 Ohm°			
Self Discharge	3% of capacity declined per month at (20C)			
Capacity Affected by Temp.(10HR)	40°C	25°C	0°C	-15°C
	102%	100%	85%	65%
Charge Voltage(25°C)	Cycle use		Float use	
	2.30-2.35V/cell(-5mV/cell/°C), max. Current: 375A		2.23V/cell(-3.0mV/cell/°C)	



Constant Current Discharge Data Units: Amperes (25°C , 77°F)

End voltage	hours										
	0.5	1	2	3	4	5	6	8	10	24	48
1.60V	1262.6	864.9	538.9	388.7	310.4	266.9	236.0	191.1	158.9	70.9	39.1
1.65V	1220.5	843.6	528.1	383.0	306.5	264.0	233.0	189.6	158.0	70.6	38.9
1.70V	1170.1	818.3	515.4	376.2	301.6	260.4	229.3	187.5	157.4	70.1	38.5
1.75V	1125.2	795.1	501.8	368.3	296.7	255.9	224.8	183.8	155.1	68.7	38.0
1.80V	1029.6	756.3	483.3	359.5	290.8	250.1	219.0	179.5	150.3	67.2	37.4
1.85V	928.5	704.0	458.0	348.9	282.0	242.1	211.7	174.4	148.4	65.0	35.6
1.90V	731.1	562.4	398.5	311.8	262.4	225.2	195.5	158.0	133.4	59.7	33.3

Constant Power Discharge Data Units: Watts per cell (25°C , 77°F)

End voltage	hours										
	0.5	1	2	3	4	5	6	8	10	12	24
1.60V	3066.4	2348.3	1295.1	984.8	786.9	663.8	583.8	481.8	406.6	339.5	178.8
1.65V	2900.1	2183.0	1286.7	977.5	780.9	659.4	579.7	478.3	403.8	337.2	177.5
1.70V	2771.5	2045.4	1268.8	964.5	770.1	650.2	571.8	471.8	398.2	332.5	175.1
1.75V	2654.2	1924.2	1233.0	940.5	740.1	627.2	559.2	464.1	390.8	326.3	172.6
1.80V	2551.6	1816.1	1188.9	914.3	722.2	598.5	533.8	442.3	370.8	309.6	169.8
1.85V	2427.5	1689.0	1144.7	868.9	696.2	582.3	513.1	430.6	355.5	296.8	165.3
1.90V	2194.3	1503.7	1038.4	840.3	660.2	563.3	489.0	408.8	322.4	269.2	157.4

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