

**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.

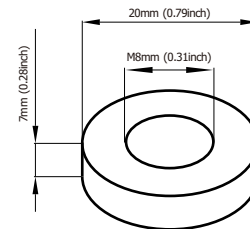


**Features & Benefits**

- 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.

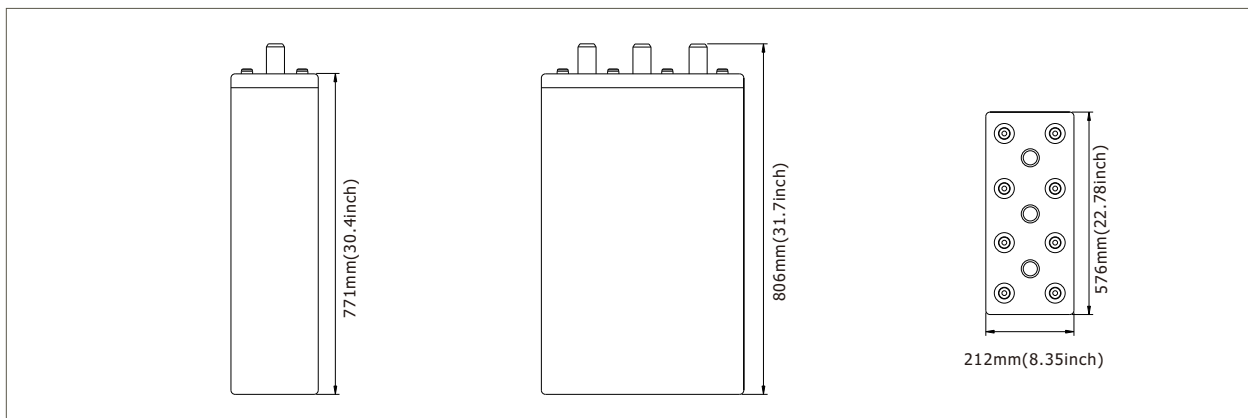
**Construction**

- Component .....Raw material
- Positive .....Lead dioxide
- Negative .....Lead
- Container .....SAN
- Cover .....ABS
- Terminal .....Copper
- Separator .....Rubber-PVC
- Electrolyte .....Sulfuric acid

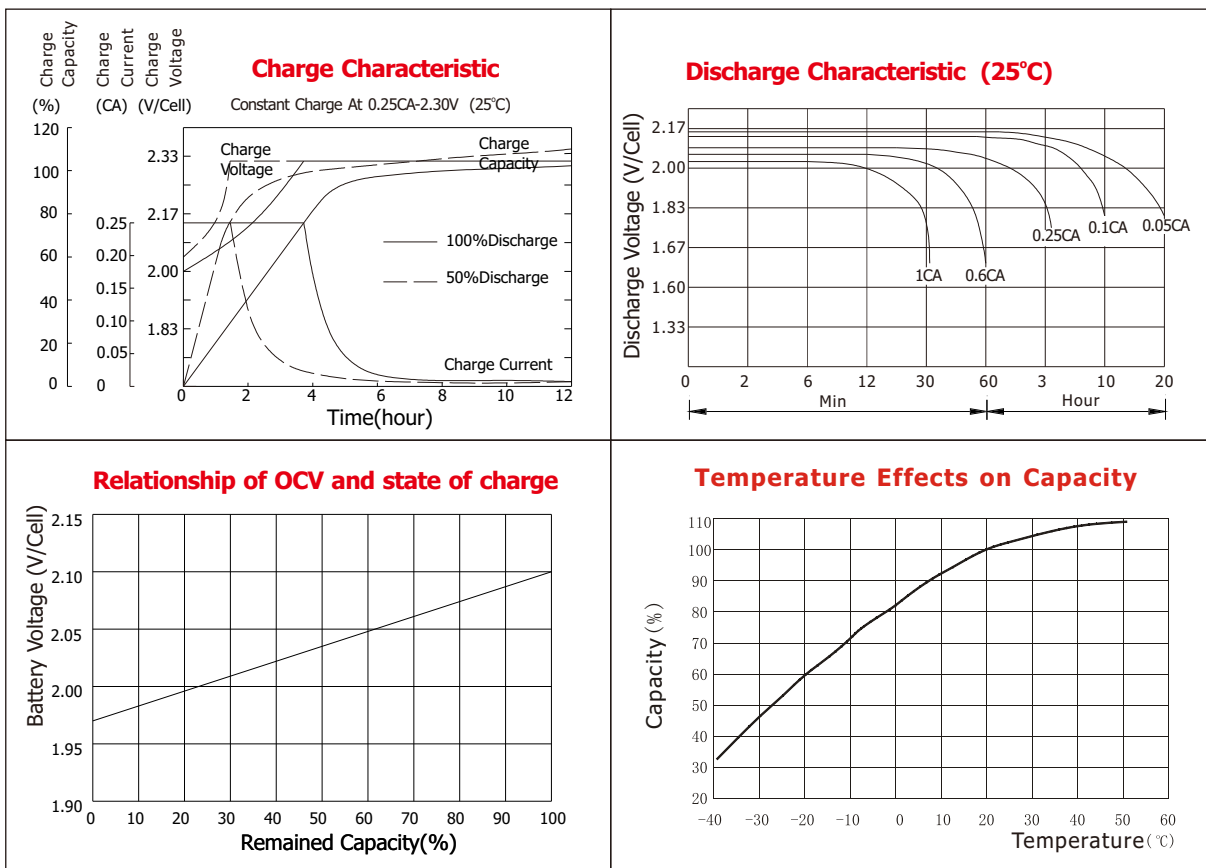


**Terminal Dimensions**

**Cell Dimensions**



Battery Model	24OPzS3000			
Designed Floating Life	20 Years			
Capacity(25°C)	24HR(156A,1.80V)	10HR(335A,1.80V)	5HR(562A,1.80V)	1HR(1480A,1.75V)
	3744AH	3350AH	2810AH	1480AH
Dimensions	Length	Width	Height	Total Height
	576mm(22.78inch)	212mm(8.35inch)	772mm(30.4inch)	806mm(31.7inch)
Approx. Weight	without electrolyte:170Kg (375lbs)		with electrolyte:230Kg(507lbs)	
Internal Resistance	Full charged at 25°C: 0.00012 Ohm			
Self Discharge	3% of capacity declined per month at (20°C)			
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	
	2.35-2.40V/cell(-5mV/cell/°C), max. Current: 750A		2.23V/cell(-3.0mV/cell/°C)	



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

F.V/Time	minutes	hours									
	30	1	2	3	4	5	6	8	10	12	24
1.60V	2420	1881	1270	948	780	668	584	450	368	307	172
1.65V	2183	1716	1212	915	758	652	560	446	371	310	173
1.70V	2035	1565	1115	860	713	610	535	435	360	301	168
1.75V	1740	1410	1042	830	690	588	520	430	355	296	165
1.80V	1485	1250	960	776	650	562	501	410	335	280	156
1.85V	1200	1050	825	675	570	495	440	365	308	257	144
1.90V	895	790	650	545	480	416	376	312	268	224	125

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

F.V/Time	minutes	hours									
	30	1	2	3	4	5	6	8	10	12	24
1.60V	4089	3201	2213	1690	1401	1225	1250	841	696	581	319
1.65V	3750	2968	2140	1653	1386	1215	1125	830	696	581	319
1.70V	3620	2821	2043	1601	1325	1140	1011	816	688	574	315
1.75V	3140	2580	1925	1546	1301	1115	990	823	672	561	308
1.80V	2710	2300	1790	1460	1230	1070	941	769	650	543	298
1.85V	2240	2000	1560	1290	1103	952	846	708	604	504	277
1.90V	1710	1520	1268	1071	921	815	731	609	529	442	242

**NARADA POWER SOURCE CO.,LTD.**  
No.459 Wensan Road, Hangzhou, Zhejiang, P.R.China  
Tel:+86-571-28827013 Fax:+86-571-85126942  
Website:www.naradabattery.com E-mail:intl@narada.biz

**NARADA ASIA PACIFIC PTE.LTD.**  
65 Ubi Crescent #07-05 HOLA centre, Singapore  
Tel: +65-6848 1191 Fax: +65-6749 3498  
E-mail:sales@narada.com.sg

**NARADA EUROPE (UK) LIMITED**  
Spectrum House, Dunstable Road, Redbourn,  
St. Albans, Herts AL3 7PR  
Tel: +44 (0)845 371 7095 Fax: +44 (0)845 612 2031  
E-mail:sales@naradaeurope.com

