

OPzS2-800



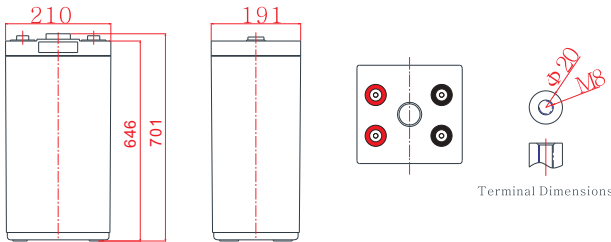
OPzS Series tubular battery

General Features

- > Tubular plate design to enhance battery performance
- > Tubular plate design makes long battery life
- > Relatively rich electrolyte, high temperature and low temperature performance is superior
- > Long cycle life, excellent deep cycle discharge ability
- > Excellent charge acceptance ability
- > Precision sealing technology



Dimension: 210 (L)×191 (W)×646 (H)×701 (TH) Unit: mm



Applications

- > Solar / wind energy and other new energy storage
- > Power systems
- > Telecommunications system
- > UPS/EPS
- > Auto control system
- > Other general purpose

Specification

Nominal Voltage	2V	
Nominal Capacity	800Ah	
Design life	20 years	
Terminal	M8, Ø=20	
Approx. Weight	Approx 60.0kg (132.3lbs) Dry cell 43Kg	
Container Material	SAN transparent container	
Rated Capacity	800Ah	10Hour Rate (80.0A to 1.80V)
	683Ah	5Hour Rate (136.6A to 1.80V)
	458.8Ah	1Hour Rate (458.8A to 1.85V)
Internal resistance	Full charged at 25°C: 0.31 mΩ	
Max. Discharge Current	6650A(5S)	
Operating Temperature	Discharge: -20 ~55°C(-4 ~ 131°F)	
	Charge: -10 ~45°C(14 ~ 113°F)	
	Storage: -15 ~45°C(5 ~ 113°F)	
Charge current:	Max.160A ; Recom.80A	
Charge Method (25 °C)	Float Charge:2.23-2.25V,recom.2.25V(-3mV/ °C)	
	Equalize charge:2.30-2.40V,recom.2.35V(-4mV/ °C)	
	Cycle charge:2.35-2.45V,recom.2.40V(-5mV/ °C)	
Self discharge	3% of capacity declined per month at 25°C	

Constant Current Discharge Characteristics Unit: A (25°C, 77°F)

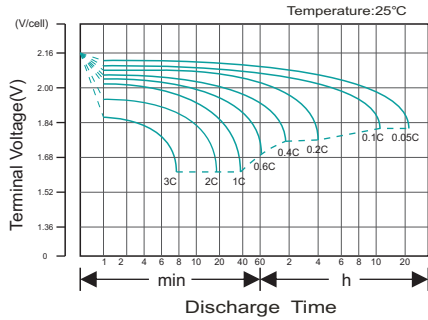
F.V/Time	30 min	1h	2h	3h	4h	5h	6h	8h	10h	24h	48h
1.60V	674	462	288	207	165	142	126	102.0	84.9	37.76	20.88
1.65V	652	451	282	204	164	141	124	101.3	84.4	37.76	20.72
1.70V	624	437	275	201	161	139	122	100.1	84.0	37.36	20.56
1.75V	601	424	268	196	158	137	120	98.2	82.8	36.72	20.32
1.80V	550	404	258	193	155	134	117	95.8	80.2	35.84	19.92
1.85V	488	375	244	186	150	129	113	93.0	79.2	34.72	18.96
1.95V	395	300	213	166	140	120	104	84.4	71.2	31.84	17.76

Constant Power Discharge Characteristics Unit: W (25°C, 77°F)

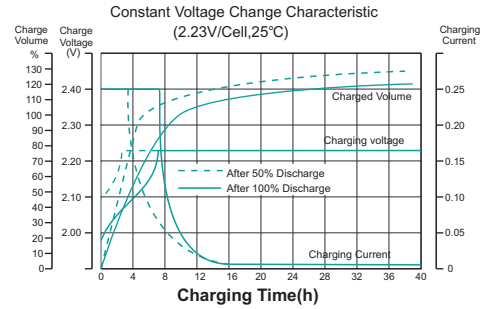
F.V/Time	30 min	1h	2h	3h	4h	5h	6h	8h	10h	24h	48h
1.60V	1229	850	531	384	306	264	234	189.7	157.8	70.48	39.60
1.65V	1199	832	520	378	303	262	230	188.2	157.1	70.32	39.44
1.70V	1152	808	509	374	300	258	227	185.8	156.2	69.52	39.12
1.75V	1112	789	498	366	295	254	224	183.3	154.8	68.96	38.96
1.80V	1026	761	486	363	294	253	222	181.8	151.4	68.08	38.56
1.85V	928	712	466	356	288	248	217	178.6	152.1	67.28	37.44
1.95V	778	592	421	329	278	238	207	167.5	141.8	64.24	36.40

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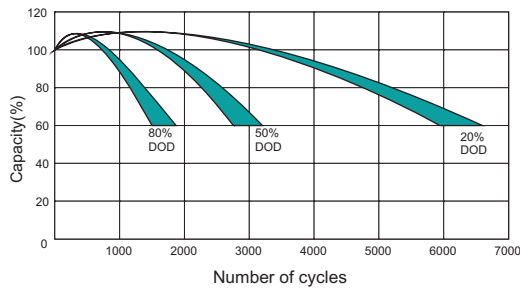
Discharge Characteristics Curve



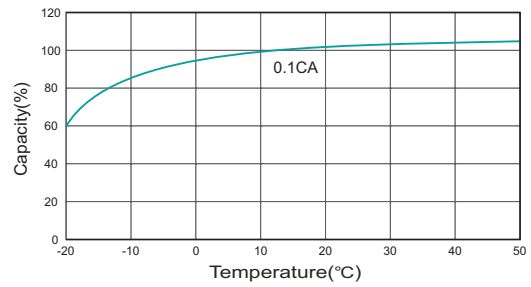
Charging Characteristics Curve



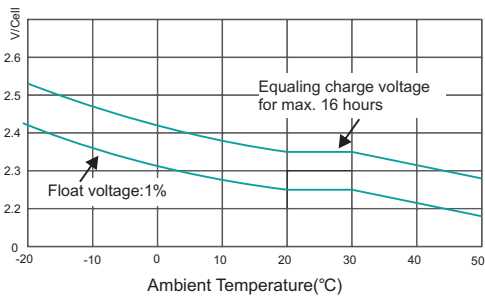
Cycle life in relation to depth of Discharge



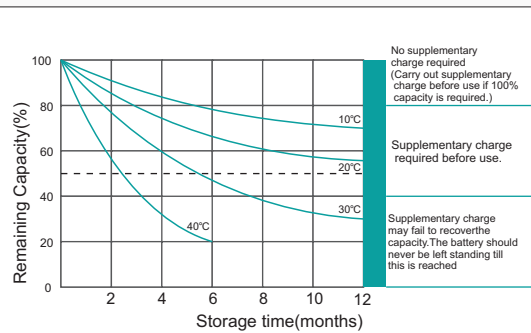
Temperature effects on Capacity



Relationship between charging voltage and temperature



Self-discharge Characteristics



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