

OPzS Battery Technical Data

8OPzS800(2V800AH)

Range Summary

OPzS series is traditional tubular flooded batteries. OPzS series provide excellent deep cycle life as well as extra-long float life, and recovery performance thank to the tubular positive plate and flooded electrolyte. OPzS series is mainly designed for energy storage, telecommunication, emergency power.

Technical Features

- Tubular flooded technology battery
- Super long service life and low maintenance
- Reliable and robust against harsh environments
- Special filter unit for acid fog proof
- High quality and high safety
- Special terminal sealed technology
- Less sensitive to heat issues
- Transparent containers can be convenient to observe
- DIN40736-1 compliant
- Comply with IEC, IEEE, UL, EN, CE standards, etc.
- Design life at 25°C (77°F): 20+ years



Standards

* IEC 60896-21/22
* CE Certified

* IEC 61427
* Manufactured in TS16949,ISO 9001 and ISO 14001 certified production facilities

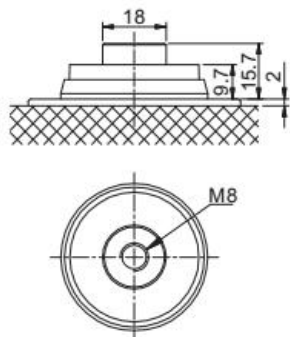
* DIN 43539-T5

* DIN 40742 EUROBAT guide

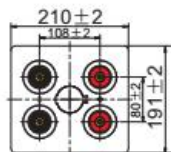
Main Applications

- Telecommunications
- Energy storage such as solar and wind system
- Motive power applications
- Railway and mining markets
- Uninterruptible power supply (UPS)
- Other floating and cycling applications

■ Terminal



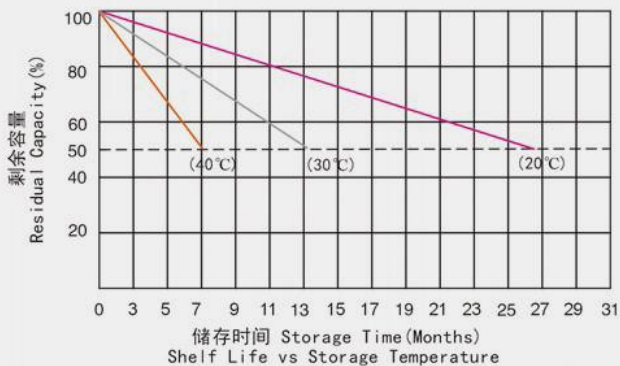
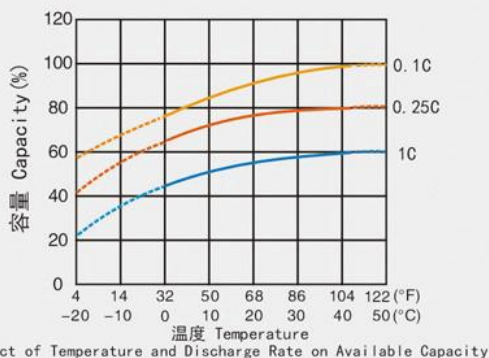
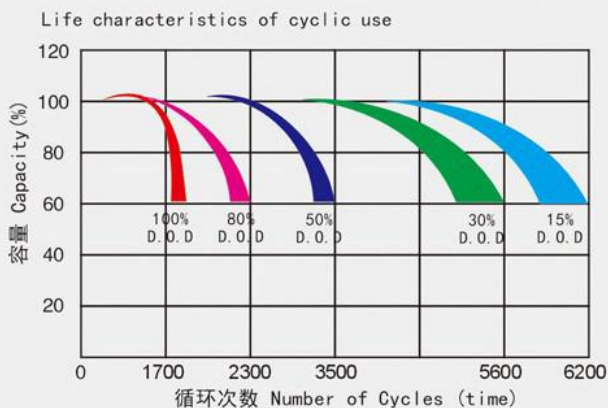
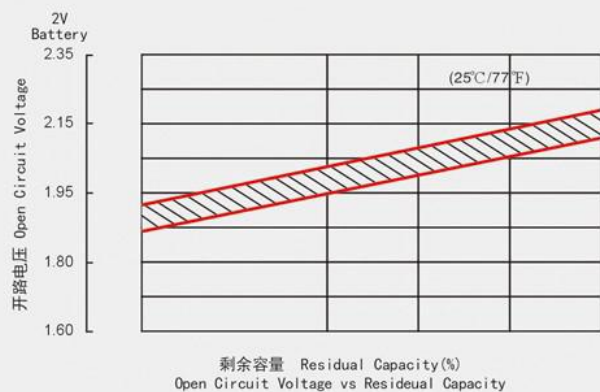
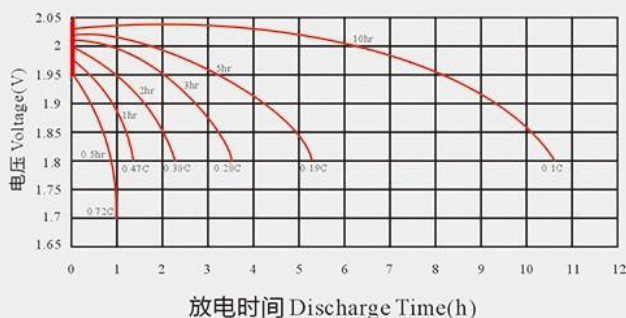
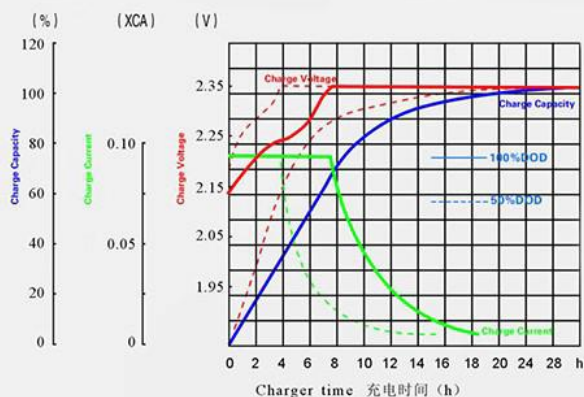
Dimensions:
L191*W210*H646 (TH701)



Specifications

Battery Model	80PzS 800	
Nominal Voltage	2V	
Rated Capacity	800Ah (10hour rate) to 1.80V/cell @25°C(77°F)	
Typical Weight	Dry	48.2KG
	Full Acid	64KG
Internal Resistance	Approx 0.68mΩ	
Operating Temperature Range	Operation(maximum):	-40°C to 55°C(-40°F to 131°F)
	Operation(recommended):	15°C to 25°C(59°F to 77°F)
	Storage:	-20°C to 40°C(-4°F to 104°F)
Float Voltage	2.23~2.25V/cell@25°C(77°F)	
Charge Current	80A(Recommendation)160A(Maxmum)	
Equalize and Cycle Service	2.35V~2.40V/cell@25°C(77°F)	
Self Discharge	The residual capacity is above 92% after 90 days storage(25°C/77°F)	
Terminal	M8 Female Large Size Copper Post	
Terminal Hardware Torque	10---15 ± 1.0Nm	
Container Material	Resin AS	

Performance Curve



DISCHARGE DATE

Constant Current Discharge (Amperes) at 20 °C (68°F)												
F.V/Time	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.60V/cell	606.4	526.9	456.8	360.0	297.6	222.4	178.8	151.2	130.9	103.6	85.6	46.4
1.65V/cell	569.6	506.7	441.6	350.9	290.8	218.7	176.2	149.2	129.1	102.3	84.6	46.0
1.70V/cell	540.8	477.9	424.8	339.7	284.0	212.3	172.2	146.0	126.6	100.5	83.2	45.3
1.75V/cell	507.2	455.5	403.2	323.7	272.0	205.6	167.0	142.1	123.6	98.8	81.8	44.6
1.80V/cell	451.2	410.7	371.2	303.5	255.6	195.2	159.9	136.2	119.1	96.1	80.0	43.7
1.85V/cell	360.0	340.3	317.6	269.9	232.0	178.7	147.9	127.7	112.1	91.4	76.6	42.0

Constant Power Discharge (Watts) at 20 °C (68°F)												
F.V/Time	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.60V/cell	1035.1	922.1	811.0	647.2	541.2	407.3	330.4	281.3	245.1	194.8	161.5	88.0
1.65V/cell	993.4	897.2	790.6	634.0	531.5	402.5	327.2	278.9	242.9	193.3	160.4	87.6
1.70V/cell	956.1	855.0	766.2	617.9	521.3	392.6	320.8	274.0	239.1	190.7	158.3	86.7
1.75V/cell	911.8	823.7	734.1	593.0	502.9	382.7	312.7	268.0	234.1	188.2	156.4	85.6
1.80V/cell	822.2	753.9	684.5	562.3	476.8	366.1	301.2	258.2	226.9	184.0	153.8	84.4
1.85V/cell	667.1	633.8	594.3	506.9	437.6	338.7	281.5	244.0	215.4	176.3	148.5	81.9

NOTE:

The above data are only taken as reference instead of inspection standard. Additional notification won't be available for parameter change due to improvement and regulation of product. Inspection shall be performed in accordance with standards.

We must make a statement, when the battery service life and safe operating performance is confirmed, the test condition will be stricter; accordingly, the battery shall not be used in these conditions, because it's difficult for battery to reach expected service life.