

Brief Introduction

TECHLAN OPzS series is flooded Lead Acid battery that adopts Tubular Plate technology to offer high reliability and performance. The Battery is designed and manufactured according to standards and with DIN40736-2/IEC60896-11 positive spine and patent formula of die-casting active material. OPzS series exceeds standard values with more DIN40736-2/IEC60896-11 than 20 years floating design even more suitable for life at 25°C and is cyclic use(PV/solar, traction etc) under extreme operating conditions.



Complied Standards

IEC60896-21/22	BS6290part4
JISC8704	GB/T19638
IEC61427	ISO 9001
ISO 14001	ISO 45001

Applications

- Solar & Wind Power system
- Nuclear power station
- Telecom backup power supply
- Energy saving requirements
- Emergency Power System

General features

It can discharge at -40°C~60°C, Charge at 0°C -50°C

Excellent deep discharge recovery capability

DOD50% Up to 3800 cycles

DOD80% Up to 2400 cycles

Design Floating Life @25°C

Self-Discharge @25°C per Month 2%

Battery Construction

Component	Positive plate	Negative plate	Container & Cover	Safety valve
Features	Tubular plate	Balanced Pb-Ca grid for improved recombination on efficiency	Fire resistance ABS (UL94-V0 optional)	Flame Si-Rubber and aging resistance
Component	Terminal	Separator	Electrolyte	Pillar seal
Features	Female Copper Insert T/AP/DP	Advanced PVC separator for high pressure cell design	Dilute high purity sulfuric acid	Two layers epoxy resin seal

Technical Specifications

Nominal Voltage	2V	
Design Floating Life @25°C	25 Years	
Nominal Capacity @25°C(10 hour rate@1.8V)	100%C (Ah)	
Capacity @25°C	20hour rate (1.8V)	105%C (Ah)
	5 hour rate (1.8V)	0.85%C(Ah)
	1 hour rate (1.75V)	0.63%C(Ah)
Internal Resistance	Full Charged Battery@25°C	≤0.02*C(mΩ)
	Discharge	-15°C~50°C
Ambient Temperature	Charge	-0°C~40°C
	Storage	-15°C~50°C
	Max.Discharge Current@25°C	4C (5s)
Capacity affected by Temperature (10 hour)	40°C	108%
	25°C	100%
	0°C	89%
Self-Discharge@25°Cper Month	-15°C	79%
		2%
Charge (Constant Voltage) @25°C	Standby Use	Initial Charging Current Less than C*0.2A Voltage 2.25-2.3V
	Cycle Use	Initial Charging Current Less than C*0.2A Voltage 2.37-2.4V

OPzS 2V Battery Items specifications

Model	Nominal Voltage (V)	Capacity (Ah)	Dimension (mm)				Net Weight kgs	Gross Weight kgs	Terminal
			Length	Width	Height	Total Height			
4OPzS200	2	200	103	206	355	410	12.8	17.5	M8
5OPzS250	2	250	124	206	355	410	15.1	20.5	M8
6OPzS300	2	300	145	206	355	410	17.5	24	M8
5OPzS350	2	350	124	206	471	526	19.8	27	M8
6OPzS420	2	420	145	206	471	526	23	32	M8
7OPzS490	2	490	166	206	471	526	26.2	38	M8
6OPzS600	2	600	145	206	646	701	32.6	47	M8
8OPzS800	2	800	191	210	646	701	45	64	M8
10OPzS1000	2	1000	233	210	646	701	54	78	M8
12OPzS1200	2	1200	275	210	646	701	63.6	92	M8
12OPzS1500	2	1500	275	210	773	828	81.7	112	M8
16OPzS2000	2	2000	399	210	773	828	119.5	150	M8
24OPzS2500	2	2500	487	212	771	826	152	204	M8
24OPzS3000	2	3000	576	212	772	806	170	230	M8

Performance Characteristics

