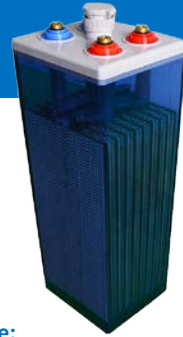


# SOLAR BATTERY

## OPzS FLOODED LEAD ACID 2V SERIES

CSPower OPzS series is flooded SOLAR 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.



## Features

- **Capacity range:** 200 ~ 3000Ah
- **Voltage:** 2V
- **Low self-discharge rate:** ≤3% per month
- **High oxygen recombination efficiency:** ≥98%
- **Life time:** 20 years design lifetime in standby application at 25 °C
- **Wide operation temperature range:** -15 °C ~ +50 °C
- **Deep cycle performance:** up to 2500 cycles@80% DOD
- **High charging receptivity**
- **Excellent deep discharge recovery capability**
- **Transparent containers can be convenient to observe**

## Applications



Solar lighting systems



Solar/wind energy storage systems



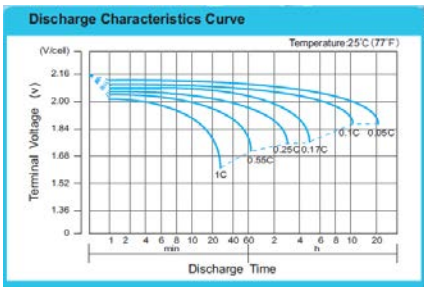
## Specifications

CSPower MODEL	Voltage	Capacity	Dimension (mm)				Weight (kg)	Terminal
	(V)	(Ah)	Length	Width	Height	Total Height	No liquid	
OPzS2-200	2	200/10HR	103	206	355	410	12.8	M10
OPzS2-250	2	250/10HR	124	206	355	410	15.1	M10
OPzS2-300	2	300/10HR	145	206	355	410	17.5	M10
OPzS2-350	2	350/10HR	124	206	471	526	19.8	M10
OPzS2-420	2	420/10HR	145	206	471	526	23	M10
OPzS2-500	2	500/10HR	166	206	471	526	26.2	M10
OPzS2-600	2	600/10HR	145	206	646	701	32.6	M10
OPzS2-800	2	800/10HR	191	210	646	701	45	M10
OPzS2-1000	2	1000/10HR	233	210	646	701	54	M10
OPzS2-1200	2	1200/10HR	275	210	646	701	63.6	M10
OPzS2-1500	2	1500/10HR	275	210	773	828	81.7	M10
OPzS2-2000	2	2000/10HR	399	210	773	828	119.5	M10
OPzS2-2500	2	2500/10HR	487	212	771	826	152	M10
OPzS2-3000	2	3000/10HR	576	212	770	802	170	M10

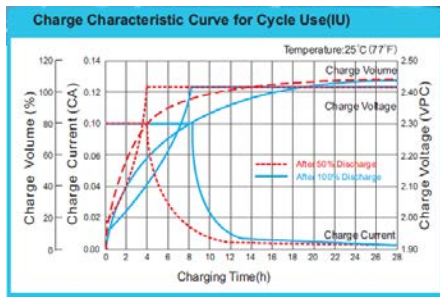
Products will be improved without notice, please contact sales for specification in kind prevail.

## CHARACTERISTICS

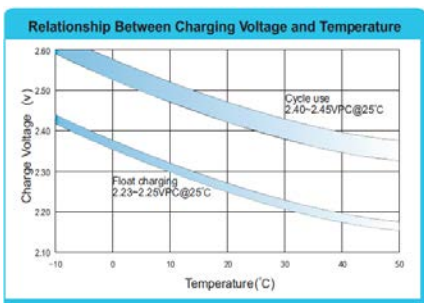
### ◆ Discharge Characteristics



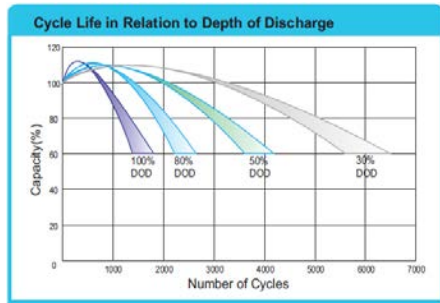
### ◆ Charge Characteristics(25°C)



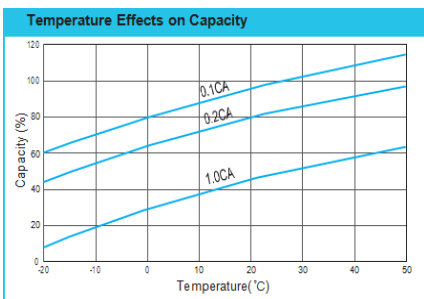
### ◆ Charging Voltage and Temperature



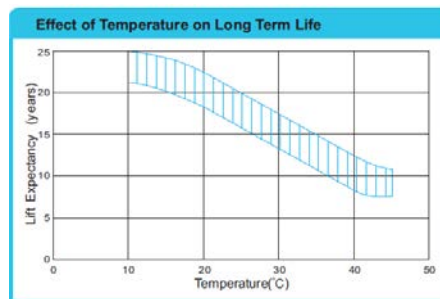
### ◆ Cycle Life in Relation to Depth of Discharge



### ◆ Temperature Effects on Capacity



### ◆ Effect of Temperature on Long Term Life



### Charging voltage and settings for stationary battery

- Constant voltage charging is recommended
- Standby Use charge voltage: 2.25 to 2.30 V/cell @25°C
- Cyclic application charge voltage : 2.37 to 2.4 V/cell @25°C
- Max. charge current allowable : 0.25C

### Additional Advantages of OPZS Solar Batteries

- 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

