(OPzV TUBULAR GEL 2V SERIES)







Solar/wind energy storage systems



# **Specifications**

CSPOWER MODEL	Voltage	Capacity	Dimension (mm)				Weight (kg)	Tamain d
	(V)	(Ah)	L	W	н	тн	(±3%)	Terminal
OPzV2-200	2	200/10HR	103	206	356	389	18	M10
OPzV2-250	2	250/10HR	124	206	356	389	22.5	M10
OPzV2-300	2	300/10HR	145	206	356	389	25	M10
OPzV2-350	2	350/10HR	124	206	473	505	28	M10
OPzV2-420	2	420/10HR	145	206	473	505	32	M10
OPzV2-500	2	500/10HR	166	206	473	505	38	M10
OPzV2-600	2	600/10HR	145	206	646	678	46	M10
OPzV2-800	2	800/10HR	191	210	646	678	65	M10
OPzV2-1000	2	1000/10HR	233	210	646	678	74	M10
OPzV2-1200	2	1200/10HR	275	210	646	678	91	M10
OPzV2-1500	2	1500/10HR	275	210	795	827	112	M10
OPzV2-2000	2	2000/10HR	399	212	770	802	153	M10
OPzV2-2500	2	2500/10HR	487	212	770	802	187	M10
OPzV2-3000	2	3000/10HR	576	212	770	802	225	M10

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

# **SOLAR BATTERY**

**OPZV TUBULAR GEL 2V SERIES** 

CSPOWER OPzV series Tubular GEL SOLAR battery is with 25 years floating design life, it is a Valve Regulated Tubular Gel battery that adopts immobilized GEL and Tubular Plate technology to offer high reliability and performance. The Battery is designed and manufactured according to DIN standards and with die-casting positive grid and patent formula of active material. OPzV series

exceeds DIN standard values with more than 25 years floating design life at 25°C and is even more suitable for cyclic use under extreme operating conditions

C4 POWER





• Capacity range: • Voltage: 200 ~ 3000Ah 2V

• Low self-discharge rate: ≤3% per month

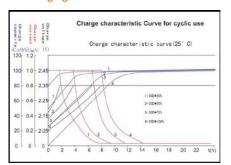
- High oxygen recombination efficiency: ≥98%
- Life time:

25 years design lifetime in standby application at 25 °C

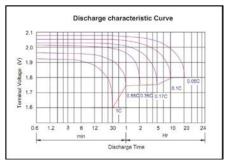
- Wide operation temperature range: -40 °C ~ +60 °C
- Deep cycle performance:
   up to 3300 cycles@50% DOD
- High charging receptivity
- Excellent deep discharge recovery capability
- Adopts quality silicon nano gel electrolyte

# C+POWER CHARACTERISTICS

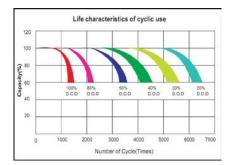
### Charging Characteristics



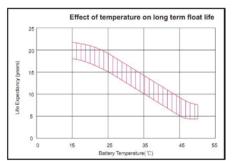
#### Discharging Characteristics(25°C)



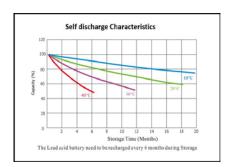
#### ◆ Life Characteristics of Cyclic Use(25°C)



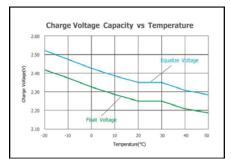
#### ♦ Effect of Temperature on Long Term Float Life



#### Self Discharge Characteristics



#### Charge Voltage Capacity vs Temperature





## 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

## **Construction for OPzV Tubular SOLAR Gel Battery**

- Positive Plates: Robust tubular plates consisting of Pb-Ca-Sn alloy, optimized for high corrosion resistance, offer an extreme high cycling expectancy.
- Negative Plates: Grid plate construction consisting of lead calcium alloy.
- Separator: Microporous and robust PVC-SiO2 separator, for positive and negative plates and optmized for low internal resistance.
- Container: ABS (UL94-HB), Flammability resistance of UL94-V1 can be available upon request.





