

# OPzV Series From 45Ah to 3000Ah



Tubular gel battery suitable for cyclic use under extreme operating conditions

OPzV series adopts an immobilized gel and tubular positive plate technology. It offers high reliability at stable performance, by using directed positive grid and patented active material formula, it exceeds the DIN standard values and offers 20+ years design life in float service. It is very cyclic use under extreme operating conditions. This series is recommended for telecom out door applications, renewable energy systems and other harsh environment applications.



More than 3500 cycles @50%DOD, 5500cycles @30%DOD

## General Feature

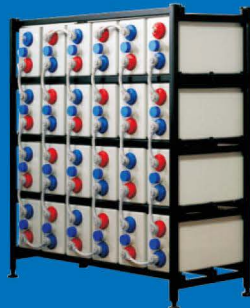
- Excellent deep cycling performance
- Wide operating temperature range from -40°C to 60°C
- Tubular positive plate with prolonged cycle life
- Fumed silica gel electrolyte
- Lead calcium die cast grid with improved corrosion resistance capability
- Low self-discharge rate and long shelf life(1 year at 25°C)
- Excellent deep discharge recovery capability

## Applications

- Telecom
- Electric utilities
- Railroad utilities
- Outdoor applications
- Power utility
- Control equipments
- Security systems
- Medical equipments
- UPS systems
- Renewable energy system

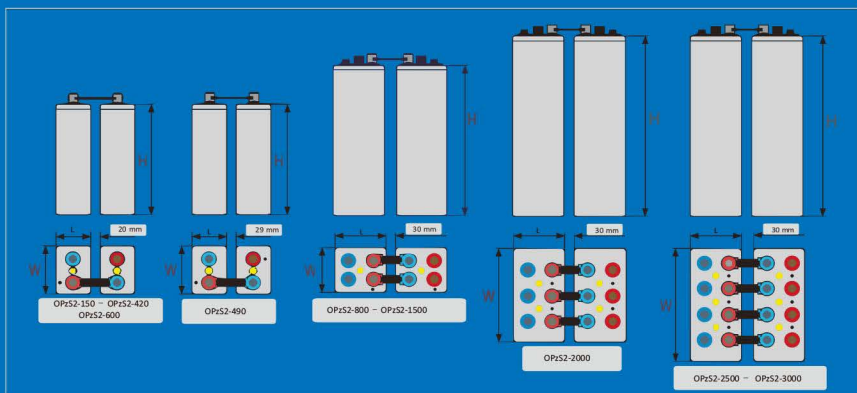
## Construction

- Positive plate — Tubular plate with die cast Pb-Sb alloy grid
- Negative plate — Balanced Pb-Ca grid for improved recombination efficiency
- Electrolyte — Dilute high purity sulphuric acid with fumed silica gel
- Battery container and cover — ABS
- Pillar seal — 100% factory tested, proven two layers epoxy resin seal
- Relief valve — Complete with integrated flame arrestor



12V Battery positive tubular plate

## CELL AND CONNECTION LAY OUT



## General specifications

BATTERY TYPE	NOMINAL VOLTAGE(V)	NOMINAL CAPACITY (AH)	DIMENSION(mm)				TERMINAL	WEIGHT (kg)
			LENGTH	WIDTH	HEIGHT	TOTAL HEIGHT		
OPzV2-100	2	100	103	206	354	390	T5	11.9
OPzV2-150	2	150	103	206	354	390	T5	15.4
OPzV2-200	2	200	103	206	354	390	T5	17.0
OPzV2-250	2	250	124	206	354	390	T5	20.3
OPzV2-300	2	300	145	206	471	506	T5	24.4
OPzV2-350	2	350	124	206	471	506	T5	27.5
OPzV2-420	2	420	145	206	471	506	T5	32.5
OPzV2-500	2	500	166	206	471	506	T5	37.0
OPzV2-600	2	600	145	206	646	681	T5	44.2
OPzV2-800	2	800	191	210	646	681	T5	60.0
OPzV2-1000	2	1000	233	210	646	681	T5	73.2
OPzV2-1200	2	1200	275	210	646	681	T5	87.0
OPzV2-1500	2	1500	275	210	796	831	T5	106.5
OPzV2-2000	2	2000	399	212	772	807	T5	144.0
OPzV2-2500	2	2500	487	212	772	807	T5	185.0
OPzV2-3000	2	3000	576	212	772	807	T5	220.0
OPzV12-45	12	45	260	169	211	218	T3	18.0
OPzV12-60	12	60	260	179	211	218	T3	23.0
OPzV12-80	12	80	328	172	215	220	T4	30.0
OPzV12-100	12	100	407	177	225	225	T4	36.0
OPzV12-120	12	120	483	170	241	241	T4	45.9
OPzV12-140	12	140	532	207	214	219	T4	53.5
OPzV12-160	12	160	532	207	214	219	T4	57.0
OPzV12-180	12	180	522	240	219	224	T4	66.5
OPzV12-200	12	200	521	262	220	225	T5	73.0

- XC SERIES  
ADM VRLA battery
- FT SERIES  
Fast-charge VRLA battery
- XL SERIES  
2v long life battery
- UPS SERIES  
High rate battery
- DC SERIES  
Deep cycle gel battery
- DG SERIES  
Deep cycle gel battery
- CB SERIES  
Lead carbon battery
- OPzV SERIES**  
Tubular gel battery
- OPzS SERIES  
Tubular flooded battery