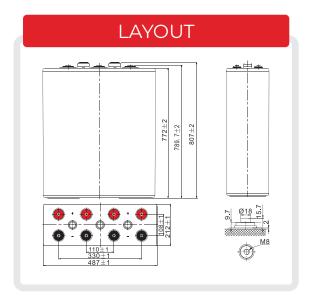


OPZV TUBULAR GEL BATTERIES

OPzV2500-2



OPzV2500-2 (2V 2500Ah)





General Features

- **⊗** Better recovery performance
- **⊘** Wide working temperature range (-20~55)°C

- **⊘** Build in copper core based in lead will carry large current
- **⊘** Separator imported form AMER-SIL high porosity. PVC-SiO₂ and low resistance
- Ø Pasted negative plate special grid design increase the active material. Availablity large current discharge and charge ability
- ♂ Tubuler type positive plate (polyester tube) prevent the active material from falling. Muti metal alloy pressed positive grid increase the anti corrosion ablity and service life

Applications

- **⊘** Telecommunications installations
- **⊘** Solar power stations
- Railway crossing

- **Signal** station
- **⊘** Traffic lights
- **Ø** Lawn lamp

Standards

- **⊘** ACC. to IEC 60896, IEC 61427, DIN 40742 standards



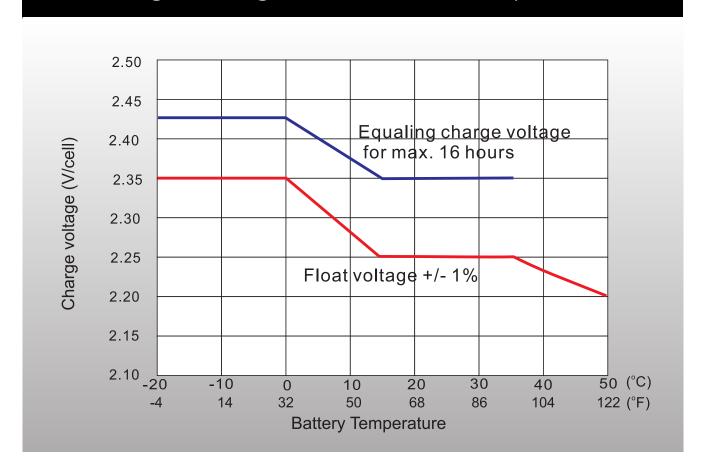
SPECIFICATIONS								
Rated Voltage	2V							
Nominal Capacity	2500Ah	C ₁₀ ,1.80V/cell						
Dimensions	Length	487mm(19.17 in.)						
	Width	212mm(8.34 in.)						
	Container height	772mm(30.39 in.)						
	Total height	807mm(31.77 in.)						
Approx. weight	196.0Kg (432.11 lbs)							
Terminal	M8							
Container material	ABS							
	3250.0 Ah	(100hr,32.5A,1.80V/cell)						
Rated capacity (25°C)	2500.0 Ah	(10hr,250.0A,1.80V/cell)						
	2180.5 Ah	(5hr,436.1A,1.75V/cell)						
	1935.6 Ah	(3hr,645.2A,1.75V/cell)						
	1394.8 Ah	(1hr,1394.8A,1.67V/cell)						
Max. discharge current	20000A							
Internal resistance (25°C)	Approx.0.25m Ω							
	Discharge	-20°C~55°C (-4°F~131°F)						
Operating temp. range	Charge	$0^{\circ}\text{C}\sim40^{\circ}\text{C} (32^{\circ}\text{F}\sim104^{\circ}\text{F})$						
	Storage	-20°C~50°C (-4°F~122°F)						
Nominal operating temp. range	25±3℃ (77±5°F)						
Cycle Use	625	5.0A						
	Float	2.25V						
Effect of temp. to Capacity	Temp. Coefficient	-3mV/cell/°C						
	Cycle(Equalization)	2.35~2.40V						
Effect of temp. to Capacity	40°C (104°F)	106%						
	25°C (77°F)	100%						
	0°C (32°F)	86%						
Self discharge	≤3% per mo	onth at 25°C						



Constant Current Discharge (Amperes) at 25°C (77°F)											
F.V/Time	1h	2h	3h	5h	8h	10h	24h	48h	72h	100h	120h
1.85V/cell	1117.3	755.5	580.0	396.8	278.1	234.3	111.3	58.2	41.8	31.7	27.3
1.80V/cell	1252.5	827.5	630.8	427.5	297.5	250.0	115.1	60.4	43.4	32.5	28.1
1.75V/cell	1302.3	856.3	645.2	436.1	302.5	254.3	115.8	61.8	44.5	33.2	28.5
1.70V/cell	1359.2	877.9	658.0	442.5	306.8	257.1	117.7	63.0	44.9	33.6	28.9
1.67V/cell	1394.8	892.3	670.2	449.7	310.4	259.3	118.8	63.6	45.3	34.2	29.3
1.60V/cell	1416.2	906.7	678.1	454.0	312.6	261.4	119.8	64.4	45.6	34.6	29.6

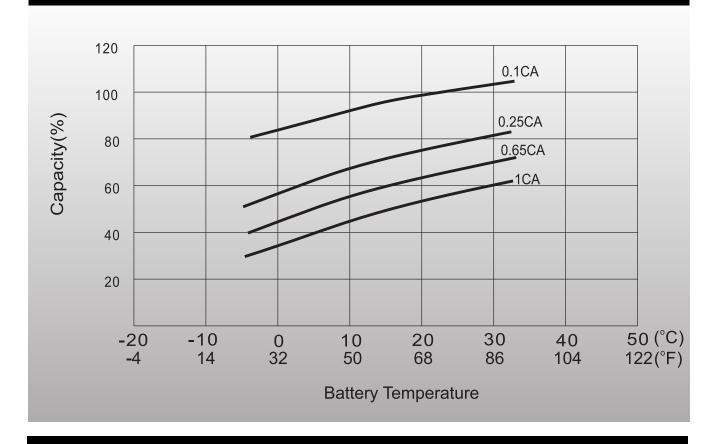
Constant Power Discharge (Watts/Cell) at 25°C (77°F)											
F.V/Time	1h	2h	3h	5h	8h	10h	24h	48h	72 h	100h	120h
1.85V/cell	2156.3	1467.9	1131.3	779.2	551.2	465.7	222.4	116.4	84.0	63.7	55.0
1.80V/cell	2412.5	1604.6	1224.4	836.4	589.3	496.4	229.7	120.8	87.0	65.3	56.6
1.75V/cell	2490.8	1640.6	1245.9	850.7	597.9	503.6	231.0	123.4	89.2	66.5	57.3
1.70V/cell	2576.2	1676.6	1267.4	865.0	604.3	508.6	234.5	125.6	89.9	67.4	58.1
1.67V/cell	2626.0	1705.4	1288.9	872.2	610.1	512.9	236.3	126.8	90.6	68.5	58.7
1.60V/cell	2654.4	1719.8	1296.0	879.3	613.0	515.7	238.0	128.1	91.1	69.1	59.3

Charge voltage vs Ambient Temp. Curve

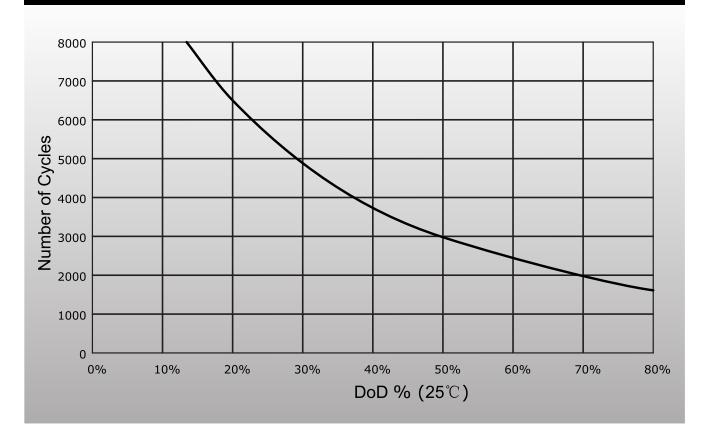




Temperature Effects in relation to Battery Capacity



Cycle Life in Relation to DOD





General Relation of Capacity vs Storage Time

