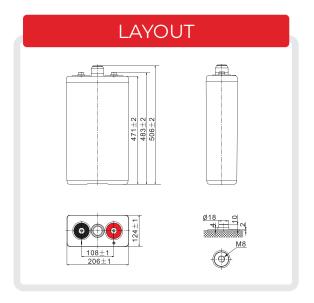


OPZV TUBULAR GEL BATTERIES

OPzV350-2



OPzV350-2 (2V 350Ah)





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

- **⊗** Street signs
- **⊘** Traffic lights
- **Ø** Lawn lamp

Standards

- **⊘** ACC. to IEC 60896, IEC 61427, DIN 40742 standards
- **O** UL, CE Certified
- ❷ Manufactured by Starmax, ISO 45001, ISO 9001 and ISO 14001 certified production facilities



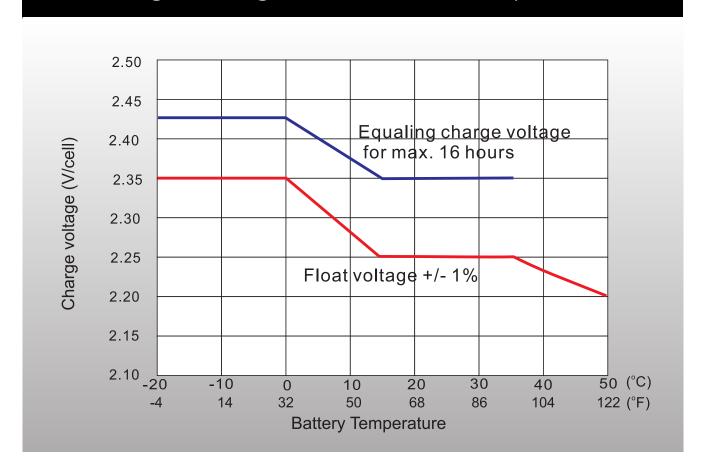
SPECIFICATIONS							
Rated Voltage	2V						
Nominal Capacity	350Ah	C ₁₀ ,1.80V/cell					
Dimensions	Length	124mm(4.88 in.)					
	Width	206mm(8.11 in.)					
	Container height	471mm(18.54 in.)					
	Total height	506mm(19.92 in.)					
Approx. weight	29.0Kg (6	53.93 lbs)					
Terminal	M8						
Container material	ABS						
	455.0 Ah	(100hr,4.55A,1.80V/cell)					
Rated capacity (25°C)	350.0 Ah	(10hr,35.0A,1.80V/cell)					
	305.5 Ah	(5hr,61.1A,1.75V/cell)					
	270.9 Ah	(3hr,90.3A,1.75V/cell)					
	195.3 Ah	(1hr,195.3A,1.65V/cell)					
Max. discharge current	2800A						
Internal resistance (25°C)	Approx.0.85mΩ						
	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	87.5A						
	Float	2.25V					
Effect of temp. to Capacity	Temp. Coefficient	-3mV/cell/°C					
	Cycle(Equalization)	2.35~2.40V					
	40°C (104°F)	106%					
Effect of temp. to Capacity	25°C (77°F)	100%					
	0°C (32°F)	86%					
Self discharge	≤3% per month 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	156.4	105.8	81.2	55.5	38.9	32.8	15.6	8.14	5.86	4.44	3.83
1.80V/cell	175.4	115.9	88.3	59.9	41.7	35.0	16.1	8.46	6.08	4.55	3.94
1.75V/cell	182.3	119.9	90.3	61.1	42.4	35.6	16.2	8.65	6.23	4.64	4.00
1.70V/cell	190 3	122 9	92 1	62 0	43 0	36 0	16 5	8 82	6 29	4 71	4 05
1.67V/cell	195.3	124.9	93.8	63.0	43.5	36.3	16.6	8.91	6.34	4.79	4.10
1.60V/cell	198.3	126.9	94.9	63.6	43.8	36.6	16.8	9.01	6.39	4.84	4.15

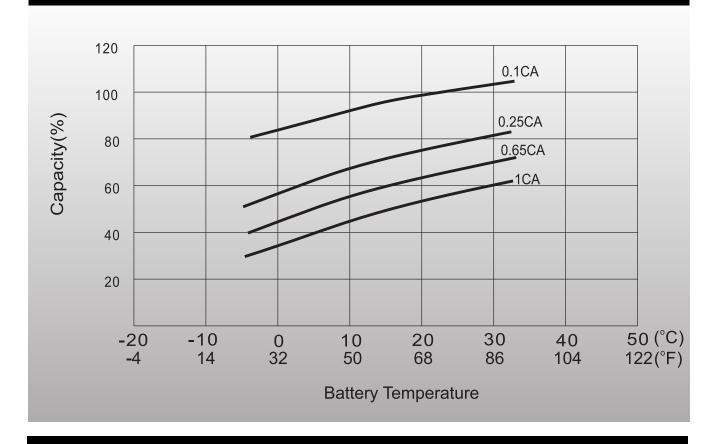
Constant Power Discharge (Watts/Cell) at 25°C (77°F)											
F.V/Time	1h	2h	3h	5h	8h	10h	24h	48h	72 h	100h	120h
1.85V/cell	301.9	205.5	158.4	109.1	77.2	65.2	31.1	16.3	11.8	8.92	7.71
1.80V/cell	337.7	224.6	171.4	117.1	82.5	69.5	32.2	16.9	12.2	9.14	7.92
1.75V/cell	348.7	229.7	174.4	119.1	83.7	70.5	32.3	17.3	12.5	9.31	8.03
1.70V/cell	360.7	234.7	177.4	121.1	84.6	71.2	32.8	17.6	12.6	9.43	8.13
1.67V/cell	367.6	238.8	180.4	122.1	85.4	71.8	33.1	17.8	12.7	9.59	8.22
1.60V/cell	371.6	240.8	181.4	123.1	85.8	72.2	33.3	17.9	12.8	9.68	8.30

Charge voltage vs Ambient Temp. Curve

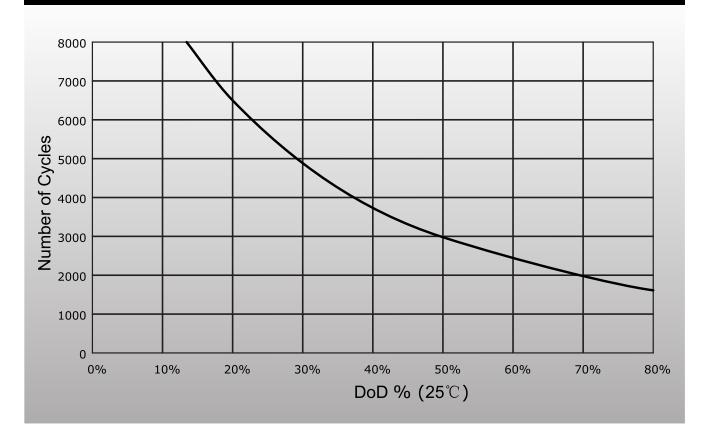




Temperature Effects in relation to Battery Capacity



Cycle Life in Relation to DOD





General Relation of Capacity vs Storage Time

