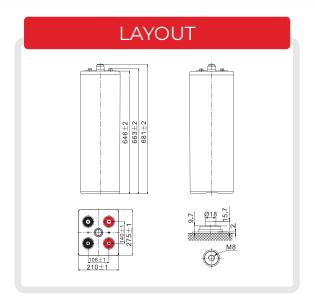


OPZV TUBULAR GEL BATTERIES

OPzV1200-2



OPzV1200-2 (2V 1200Ah)





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

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

Standards

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



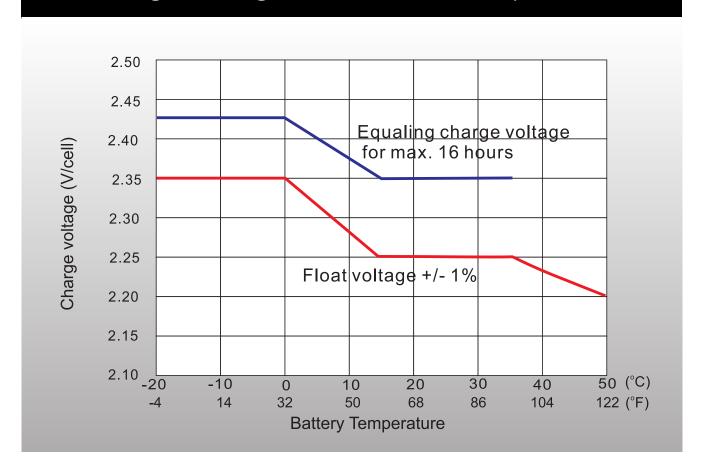
SPECIFICATIONS							
Rated Voltage	2V						
Nominal Capacity	1200Ah	C ₁₀ ,1.80V/cell					
Dimensions	Length	275mm(10.83 in.)					
	Width	210mm(8.27 in.)					
	Container height	646mm(25.43 in.)					
	Total height	681mm(26.81 in.)					
Approx. weight	93.0Kg (205.03 lbs)						
Terminal	M8						
Container material	ABS						
	1560.0 Ah	(100hr,15.6A,1.80V/cell)					
Rated capacity (25°C)	1200.0 Ah	(10hr,120.0A,1.80V/cell)					
	1046.5 Ah	(5hr,209.3A,1.75V/cell)					
	929.1Ah	(3hr,309.7A,1.75V/cell)					
	669.5 Ah	(1hr,669.5A,1.67V/cell)					
Max. discharge current	9600A						
Internal resistance (25°C)	Approx.0.43mΩ						
	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°C (77±5°F)						
Cycle Use	300).OA					
	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	536.3	362.7	278.4	190.4	133.5	112.5	53.4	27.9	20.1	15.2	13.1
1.80V/cell	601.2	397.2	302.8	205.2	142.8	120.0	55.3	29.0	20.8	15.6	13.5
1.75V/cell	625.1	411.0	309.7	209.3	145.2	122.1	55.6	29.7	21.4	15.9	13.7
1.70V/cell	652.4	421.4	315.9	212.4	147.3	123.4	56.5	30.2	21.6	16.1	13.9
1.67V/cell	669.5	428.3	321.7	215.8	149.0	124.5	57.0	30.5	21.8	16.4	14.1
1.60V/cell	679.8	435.2	325.5	217.9	150.0	125.5	57.5	30.9	21.9	16.6	14.2

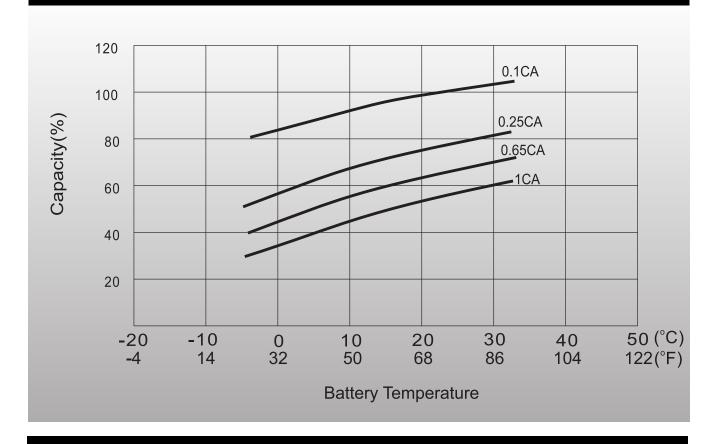
Constant Power Discharge (Watts/Cell) at 25°C (77°F)											
F.V/Time	1h	2h	3h	5h	8h	10h	24h	48h	72h	100h	120h
1.85V/cell	1035.0	704.6	543.0	374.0	264.6	223.5	106.7	55.9	40.3	30.6	26.4
1.80V/cell	1158.0	770.2	587.7	401.5	282.8	238.3	110.3	58.0	41.8	31.3	27.1
1.75V/cell	1195.6	787.5	598.0	408.3	287.0	241.7	110.9	59.2	42.8	31.9	27.5
1.70V/cell	1236.6	804.8	608.3	415.2	290.1	244.1	112.5	60.3	43.2	32.3	27.9
1.67V/cell	1260.5	818.6	618.7	418.6	292.8	246.2	113.4	60.9	43.5	32.9	28.2
1.60V/cell	1274.1	825.5	622.1	422.1	294.2	247.5	114.3	61.5	43.7	33.2	28.5

Charge voltage vs Ambient Temp. Curve

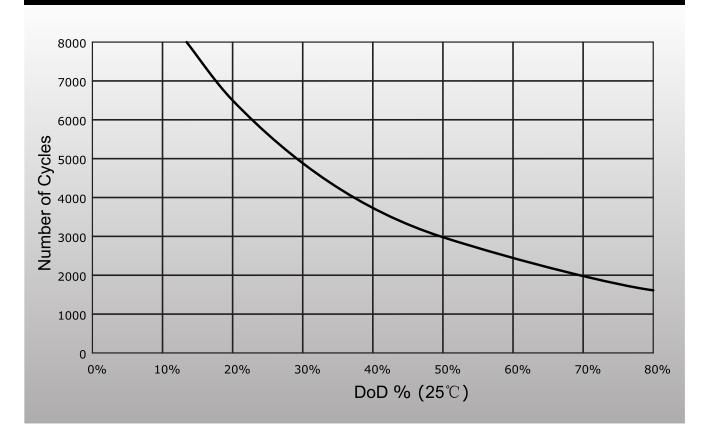




Temperature Effects in relation to Battery Capacity



Cycle Life in Relation to DOD





General Relation of Capacity vs Storage Time

