



# OPzV Series-Tubular Gel

## 12 OPzV1200(2V1200Ah)

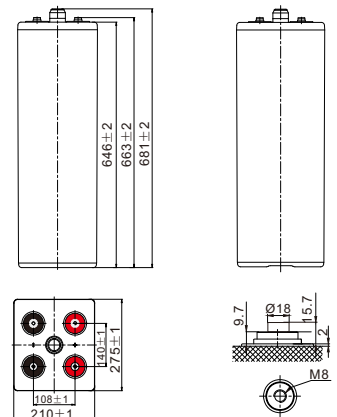


### Specifications

Rated Voltage	2V	
Nominal Capacity	1200Ah	(C <sub>10</sub> , 1.80V/cell)
Dimension	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	
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 (5s)	9600A	
Internal Resistance(25°C)	Approx.0.43mΩ	
Operating Temp.Range	Discharge	-20°C~55°C (-4°F~131°F)
	Charge	0°C~40°C (32°F~104°F)
	Storage	-20°C~50°C (-4°F~122°F)
Nominal Operating Temp. Range	25±3°C (77±5°F)	
Max.Charging Current(25°C)	300.0A	
Charge voltage(25°C)	Float	2.25V
	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 month at 25°C	



### Layout



### Constant Current Discharge (Amperes) at 25 °C (77°F)

F.V/Time	10min	15min	30min	1h	2h	3h	5h	8h	10h	20h
1.85V/cell	818.0	777.0	670.0	536.3	362.7	278.4	190.4	133.5	112.5	59.0
1.80V/cell	1006.0	941.0	780.0	601.2	397.2	302.8	205.2	142.8	120.0	63.0
1.75V/cell	1190.0	1053.0	832.0	625.1	411.0	309.7	209.3	145.2	122.1	64.1
1.70V/cell	1336.0	1149.0	880.0	652.4	421.4	315.9	212.4	147.3	123.4	64.8
1.65V/cell	1435.0	1213.0	915.0	669.5	428.3	321.7	215.8	149.0	124.5	65.3
1.60V/cell	1501.0	1256.0	939.0	679.8	435.2	325.5	217.9	150.0	125.5	65.9

### Constant Power Discharge (Watts/cell) at 25 °C (77°F)

F.V/Time	10min	15min	30min	1h	2h	3h	5h	8h	10h	20h
1.85V/cell	1522.0	1460.0	1279.0	1035.0	704.6	543.0	374.0	264.6	223.5	117.4
1.80V/cell	1839.0	1743.0	1476.0	1158.0	770.2	587.7	401.5	282.8	238.3	125.1
1.75V/cell	2138.0	1923.0	1557.0	1195.6	787.5	598.0	408.3	287.0	241.7	126.9
1.70V/cell	2357.0	2069.0	1632.0	1236.6	804.8	608.3	415.2	290.1	244.1	128.2
1.65V/cell	2486.0	2152.0	1680.0	1260.5	818.6	618.7	418.6	292.8	246.2	129.2
1.60V/cell	2551.0	2196.0	1705.0	1274.1	825.5	622.1	422.1	294.2	247.5	130.0



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### Applications

- Telecommunications
- Radio and cellular telephone relay stations
- Emergency lighting systems
- Power stations, Conventional power stations, alternative power (solar, wind)
- Large UPS and computer back-up
- Railway signaling
- Maritime standby power on ships and ashore
- Process and control engineering
- Standby power
- Buoy lighting

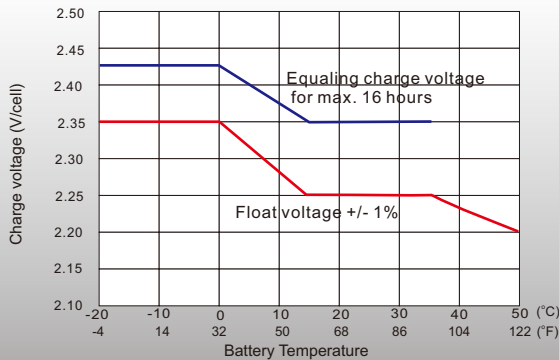
### General Features

- 20 years design life (20°C)
- Better recovery performance
- Wide working temperature range (-20~55°C)
- No electrolyte stratification provides longer service life
- High recombination efficient
- Built in copper core based in lead will carry large current
- Separator imported from AMER-SIL high porosity, PVC-SiO<sub>2</sub> and low resistance
- Pasted negative plate special grid design increase the active material, availability large current discharge and charge ability
- Tubular type positive plate (polyester tube) prevent the active material from falling. Multi metal alloy pressed positive grid increase the anti corrosion ability and service life

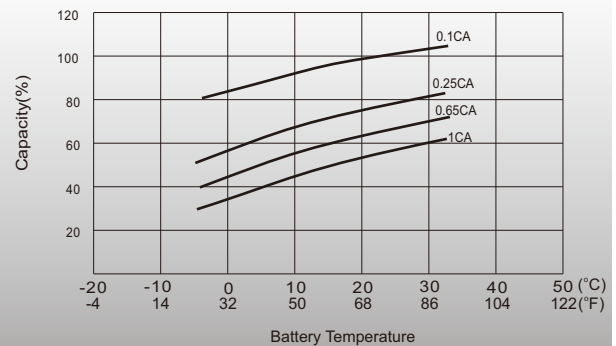
### Standards

- Compliance with IEC 60896, IEC 61427, DIN 40742 standards
- UL, CE Certified
- Manufactured in Leoch@IATF16949, ISO 45001, ISO 9001 and ISO 14001 certified production facilities

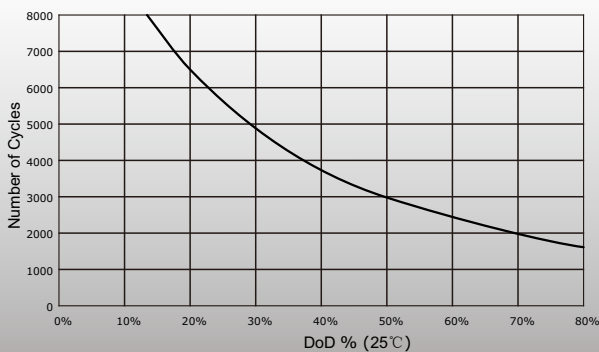
### Charge voltage vs ambient temperature curve



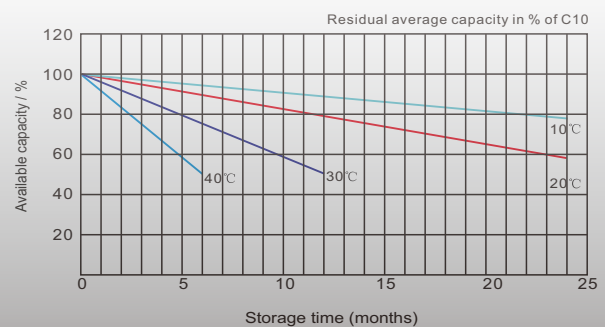
### Temperature effects in relation to battery capacity



### Cycle Life in Relation to DOD



### General Relation of Capacity VS. Storage Time



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