



OPzV Series-Tubular Gel

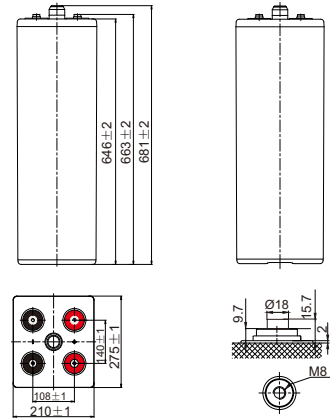
12 OPzV1200(2V1200Ah)

Specifications

Rated Voltage	2V	
Nominal Capacity	1200Ah	(C ₁₀ , 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
1.85V/cell	818.0	777.0	670.0	536.3	362.7	278.4	190.4	133.5	112.5
1.80V/cell	1006.0	941.0	780.0	601.2	397.2	302.8	205.2	142.8	120.0
1.75V/cell	1190.0	1053.0	832.0	625.1	411.0	309.7	209.3	145.2	122.1
1.70V/cell	1336.0	1149.0	880.0	652.4	421.4	315.9	212.4	147.3	123.4
1.67V/cell	1435.0	1213.0	915.0	669.5	428.3	321.7	215.8	149.0	124.5
1.60V/cell	1501.0	1256.0	939.0	679.8	435.2	325.5	217.9	150.0	125.5

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

F.V/Time	10min	15min	30min	1h	2h	3h	5h	8h	10h
1.85V/cell	1522.0	1460.0	1279.0	1035.0	704.6	543.0	374.0	264.6	223.5
1.80V/cell	1839.0	1743.0	1476.0	1158.0	770.2	587.7	401.5	282.8	238.3
1.75V/cell	2138.0	1923.0	1557.0	1195.6	787.5	598.0	408.3	287.0	241.7
1.70V/cell	2357.0	2069.0	1632.0	1236.6	804.8	608.3	415.2	290.1	244.1
1.67V/cell	2486.0	2152.0	1680.0	1260.5	818.6	618.7	418.6	292.8	246.2
1.60V/cell	2551.0	2196.0	1705.0	1274.1	825.5	622.1	422.1	294.2	247.5



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Applications

- Telecommunications
- Radio and cellular telephone relay stations
- Emergency lighting systems
- Power stations, Conventional power stations, alternative pwer(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

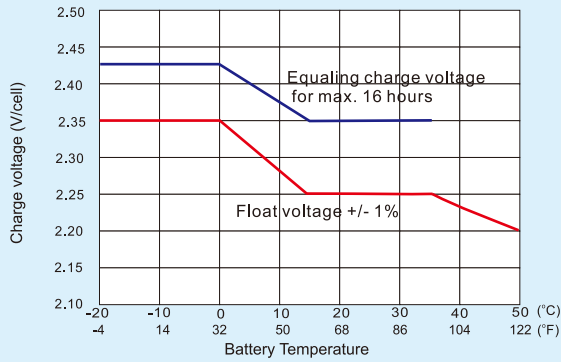
General Features

- 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
- Build in copper core based in lead will carry large current
- Separator imported form AMER-SIL high porosity, PVC-SiO₂ and low resistance
- Pasted negative plate special grid design increase the active material.availability 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 ability and service life

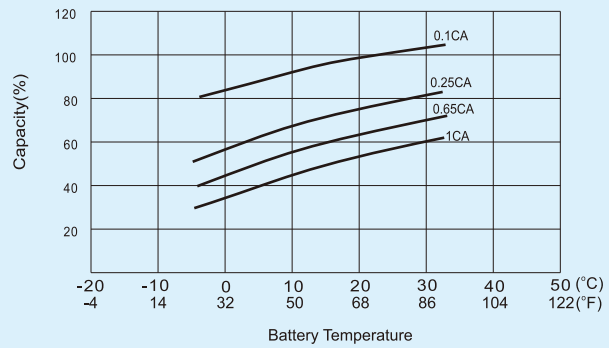
Standards

- Compliance with IEC 60896, IEC 61427, DIN 40742 standards
- UL, CE Certified
- Manufactured in KOYAMA® IATF16949, OHSAS 18001,ISO 9001 and ISO 14001 certified production facilities

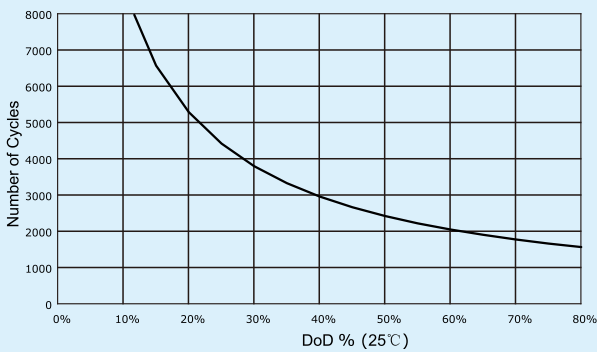
Charge voltage vs ambient temperature curve



Temperature effects in relation to battery capacity



Cycle Life in Relation to DOD



General Relation of Capacity VS. Storage Time

