EAGLE EYE
POWER SOLUTIONS

OPzV Series-Tubular Gel

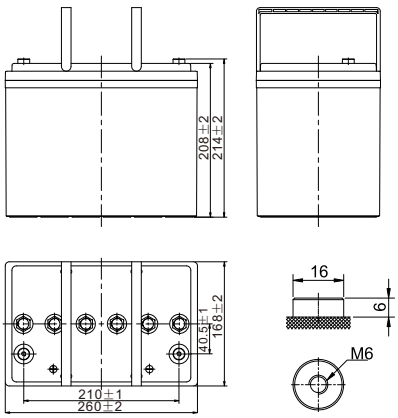
12V 2OPzV45(12V45Ah)

Specifications

Rated Voltage		12V
Nominal Capacity	45Ah	(C_{10},1.80V/cell)
Dimension	Length Width Container Height Total Height	260mm(10.24 in.) 168mm(6.61 in.) 208mm(8.19 in.) 214mm(8.43 in.)
Approx Weight		19.5Kg (42.99 lbs)
Terminal		M6
Container Material		ABS
Rated Capacity (25°C)	45.0 Ah 38.2 Ah 33.0 Ah 26.6 Ah	(10hr,4.50A,1.80V/cell) (5hr,7.64A,1.75V/cell) (3hr,11.0A,1.75V/cell) (1hr,26.6A,1.67V/cell)
Max. Discharge Current(5s)		360A
Internal Resistance(25℃)		Approx.11.7mΩ
Operating Temp.Range	Discharge Charge Storage	-20°C~55°C (-4°F~131°F) 0°C~40°C (32°F~104°F) -20°C~50°C (-4°F~122°F)
Nominal Operating Temp. Range		25±3°C (77±5°F)
Max.Charging Current(25°C)		11.25A
Charge voltage(25°C)	Float Temp. Coefficient Cycle(Equalization)	13.5V -3mV/cell/°C 14.1~14.4V
Effect of temp. to Capacity	40°C (104°F) 25°C (77°F) 0°C (32°F)	106% 100% 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	40.1	35.5	26.5	20.3	12.9	9.83	7.03	5.08	4.30
1.80V/cell	48.3	40.9	29.6	22.3	13.9	10.6	7.35	5.30	4.50
1.75V/cell	55.4	45.7	31.9	23.7	14.7	11.0	7.64	5.44	4.59
1.70V/cell	60.4	49.6	35.9	25.8	15.6	11.8	8.09	5.52	4.63
1.67V/cell	66.1	53.2	37.5	26.6	16.1	12.2	8.24	5.62	4.71
1.60V/cell	70.6	56.3	39.0	27.5	16.7	12.5	8.47	5.71	4.80

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	66.0	60.7	50.4	39.5	25.2	19.2	13.8	10.0	8.61
1.80V/cell	79.9	72.4	56.7	43.2	27.1	20.5	14.5	10.5	8.91
1.75V/cell	92.9	79.9	60.4	45.8	28.4	21.5	15.0	10.8	9.13
1.70V/cell	102.3	86.0	67.4	49.4	30.1	22.9	15.8	10.9	9.21
1.67V/cell	107.8	89.5	69.8	50.8	30.9	23.5	16.1	11.1	9.36
1.60V/cell	110.7	91.4	71.6	52.0	31.8	23.9	16.4	11.3	9.51

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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

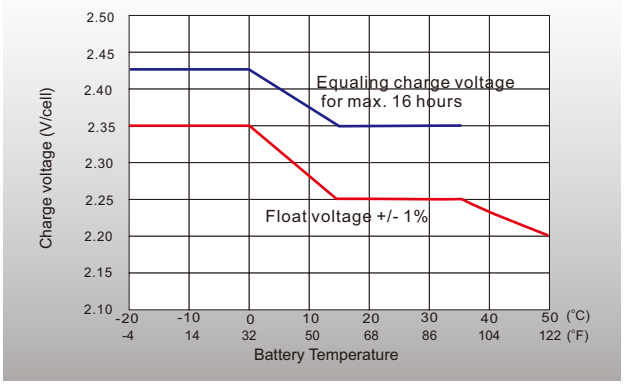
General Features

- 16 years design life(20℃)
- Better recovery performance
- Wide working temperature range (-20~55)℃
- 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-$SiO_2$and low resistance
- 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

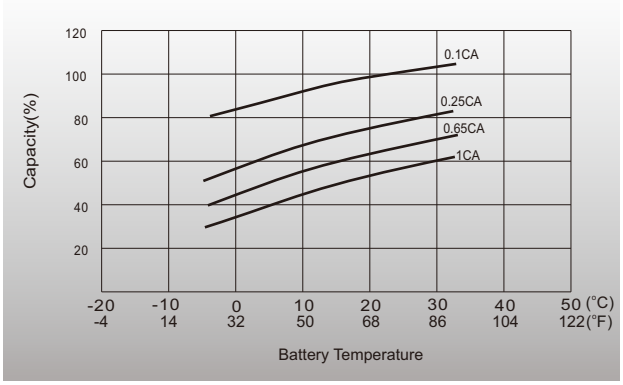
Standards

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

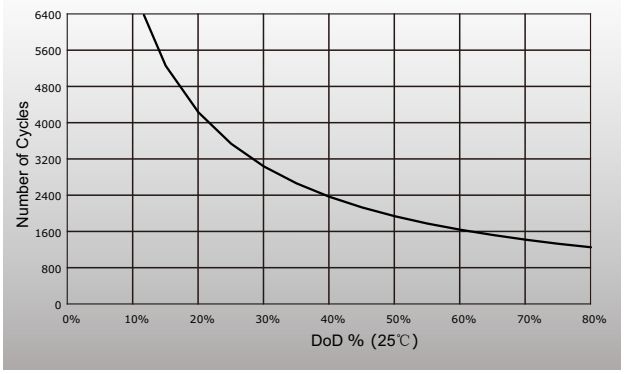
Charge voltage vs ambient temperature curve



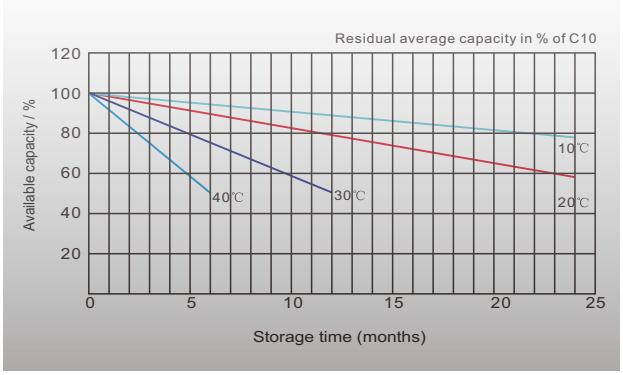
Temperature effects in relation to battery capacity



Cycle Life in Relation to DOD



General Relation of Capacity VS. Storage Time



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