



# OPzV Series-Tubular Gel

## 5 OPzV350(2V350Ah)

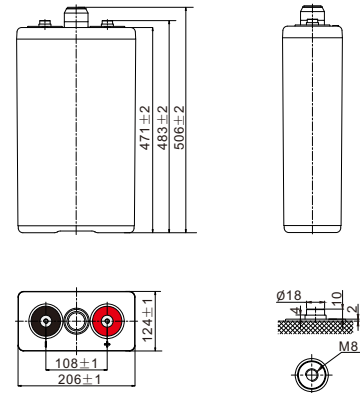


### Specifications

Rated Voltage	2V	
Nominal Capacity	350Ah	(C <sub>100</sub> , 1.80V/cell)
Dimension	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 (63.93 lbs)	
Terminal	M8	
Container Material	ABS	
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 (5s)	2800A	
Internal Resistance(25°C)	Approx.0.85mΩ	
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)	87.5A	
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	274.0	253.0	206.0	156.4	105.8	81.2	55.5	38.9	32.8	17.2
1.80V/cell	337.0	306.0	240.0	175.4	115.9	88.3	59.9	41.7	35.0	18.4
1.75V/cell	399.0	343.0	256.0	182.3	119.9	90.3	61.1	42.4	35.6	18.7
1.70V/cell	448.0	374.0	271.0	190.3	122.9	92.1	62.0	43.0	36.0	18.9
1.65V/cell	481.0	395.0	282.0	195.3	124.9	93.8	63.0	43.5	36.3	19.1
1.60V/cell	503.0	409.0	289.0	198.3	126.9	94.9	63.6	43.8	36.6	19.2

### 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	510.0	475.0	394.0	301.9	205.5	158.4	109.1	77.2	65.2	34.2
1.80V/cell	616.0	567.0	455.0	337.7	224.6	171.4	117.1	82.5	69.5	36.5
1.75V/cell	717.0	626.0	480.0	348.7	229.7	174.4	119.1	83.7	70.5	37.0
1.70V/cell	790.0	673.0	503.0	360.7	234.7	177.4	121.1	84.6	71.2	37.4
1.65V/cell	833.0	700.0	518.0	367.6	238.8	180.4	122.1	85.4	71.8	37.7
1.60V/cell	855.0	715.0	526.0	371.6	240.8	181.4	123.1	85.8	72.2	37.9



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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

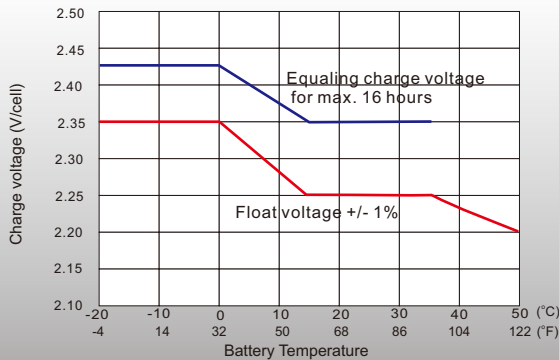
### General Features

- 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

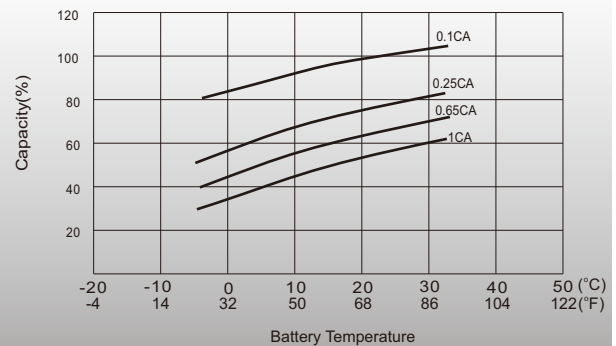
### Standards

- 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

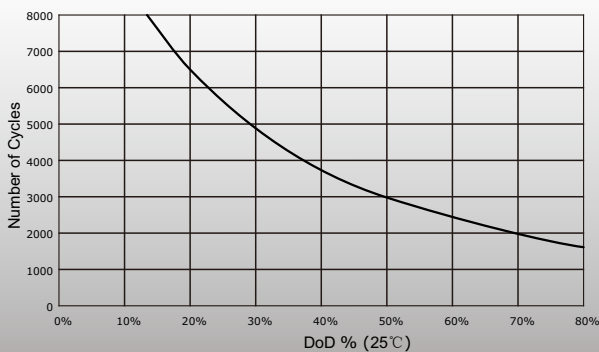
### Charge voltage vs ambient temperature curve



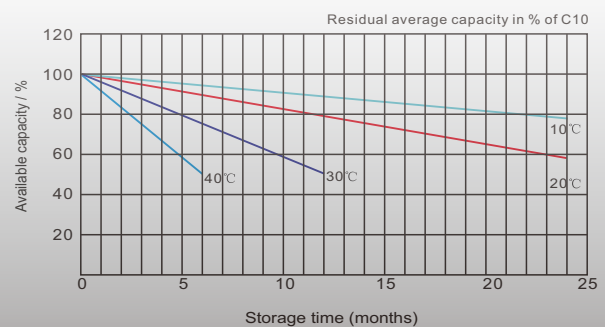
### Temperature effects in relation to battery capacity



### Cycle Life in Relation to DOD



### General Relation of Capacity VS. Storage Time



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