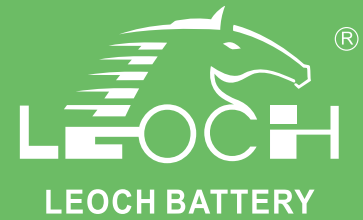




# OPzV Series-Tubular Gel

## 6 OPzV600(2V600Ah)

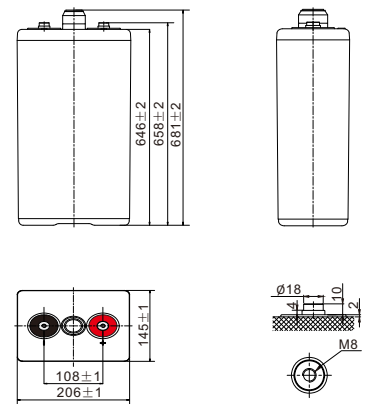


### Specifications

Rated Voltage	2V	
Nominal Capacity	600Ah	(C <sub>10</sub> , 1.80V/cell)
Dimension	Length	145mm(5.71 in.)
	Width	206mm(8.11 in.)
	Container Height	646mm(25.43 in.)
	Total Height	681mm(26.81 in.)
Approx Weight	46.0Kg (101.41 lbs)	
Terminal	M8	
Container Material	ABS	
Rated Capacity (25°C)	600.0 Ah	(10hr,60.0A,1.80V/cell)
	523.0 Ah	(5hr,104.6A,1.75V/cell)
	456.0 Ah	(3hr,152.0A,1.75V/cell)
	335.0 Ah	(1hr,335.0A,1.65V/cell)
Max. Discharge Current (5s)	4800A	
Internal Resistance(25°C)	Approx.0.62mΩ	
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)	150.0A	
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	409.0	389.0	335.0	267.0	177.0	139.0	95.0	66.0	56.2
1.80V/cell	503.0	470.0	390.0	301.0	195.0	151.0	102.6	71.5	60.0
1.75V/cell	595.0	526.0	416.0	313.0	200.0	152.0	104.6	72.5	60.9
1.70V/cell	668.0	574.0	440.0	325.0	205.0	158.0	105.8	74.0	61.6
1.65V/cell	717.0	607.0	458.0	335.0	209.0	160.0	108.0	74.5	62.3
1.60V/cell	750.0	628.0	469.0	341.0	212.0	162.0	109.0	75.0	62.7

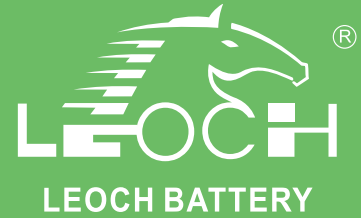
### Constant Power Discharge (Watts/cell) at 25 °C (77°F)

F.V/Time	10min	15min	30min	1h	2h	3h	5h	8h	10h
1.85V/cell	761.0	730.0	640.0	517.0	344.0	272.0	185.0	130.0	112.0
1.80V/cell	919.0	871.0	738.0	578.0	376.0	293.9	199.0	139.0	119.0
1.75V/cell	1069.0	962.0	779.0	598.0	385.0	295.0	202.0	141.0	121.0
1.70V/cell	1178.0	1034.0	816.0	617.0	393.0	303.8	205.0	143.0	122.0
1.65V/cell	1243.0	1076.0	840.0	631.0	399.0	307.8	207.0	144.0	123.0
1.60V/cell	1276.0	1098.0	853.0	637.0	402.0	309.8	208.0	145.0	124.0



# OPzV Series-Tubular Gel

## 6 OPzV600(2V600Ah)



### Applications

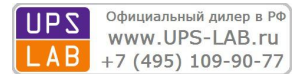
- Telecommunications
- Radio and cellular telephone relay stations
- Emergency lighting systems
- Power stations, Conventional power stations, alternative power (solar, wind)
- Large UPS and computer back-up
- Railway signaling
- Maritime standby power on ships and ashore
- Process and control engineering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

### General Features

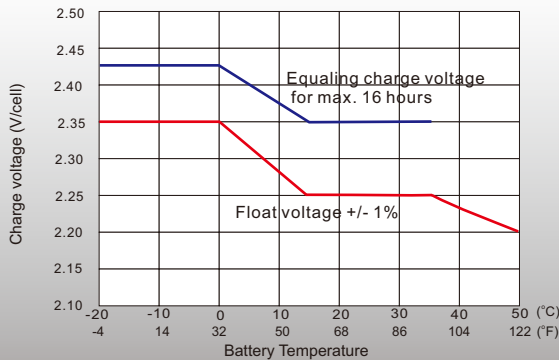
- 20 years design life (20°C)
- Better recovery performance
- Wide working temperature range (-20~55°C)
- No electrolyte stratification provides longer service life
- High recombination efficient
- Built in copper core based in lead will carry large current
- Separator imported from AMER-SIL high porosity, 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

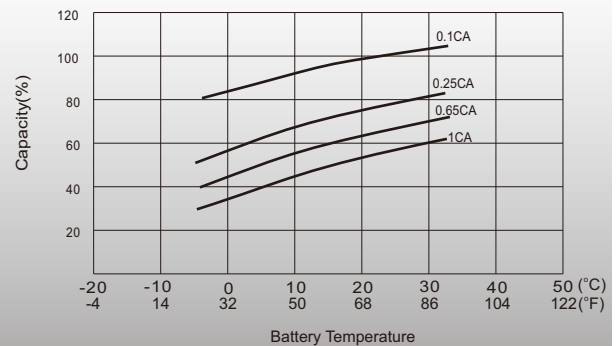
- Compliance with IEC 60896, IEC 61427, DIN 40742 standards
- UL, CE Certified
- Manufactured in Leoch@IATF16949, OHSAS 18001, ISO 9001 and ISO 14001 certified production facilities



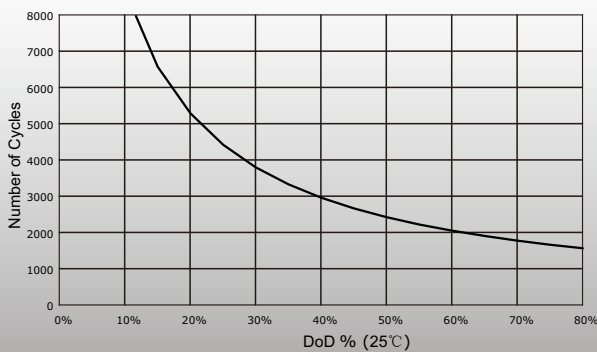
### Charge voltage vs ambient temperature curve



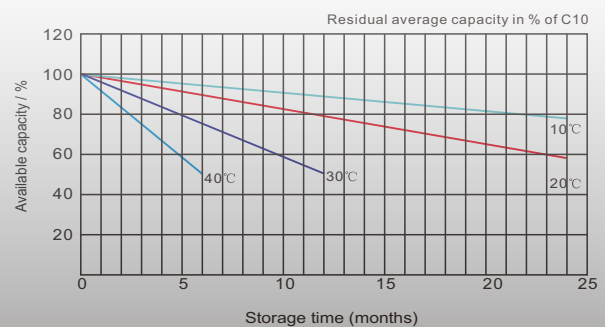
### Temperature effects in relation to battery capacity



### Cycle Life in Relation to DOD



### General Relation of Capacity VS. Storage Time



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