

OPZV TUBULAR GEL BATTERIES

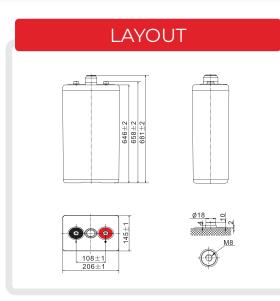
OPzV600-2



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www.starmaxbatteries.com

OPzV600-2 (2V 600Ah)





General Features

- Ø Better recovery performance
- Ø Wide working temperature range (-20∼55)°C
- Ø No electrolyte stratification provides longer service life
- Ø High recombination efficient
- I Build in copper core based in lead will carry large current
- Separator imported form AMER-SIL high porosity. PVC-SiO₂ and low resistance
- Ø 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

Applications

- **⊘** Telecommunications installations
- Ø Solar power stations
- Ø Alarm installations
- Ø Railway crossing
- 𝞯 Street lightening

Standards

- Ø ACC. to IEC 60896, IEC 61427, DIN 40742 standards
- 𝞯 UL, CE Certified
- Ø Manufactured by Starmax, ISO 45001, ISO 9001 and ISO 14001 certified production facilities



- Ø Signal station
- Ø Street signs
- Ø Traffic lights
- 🞯 Lawn lamp

SPECIFICATIONS

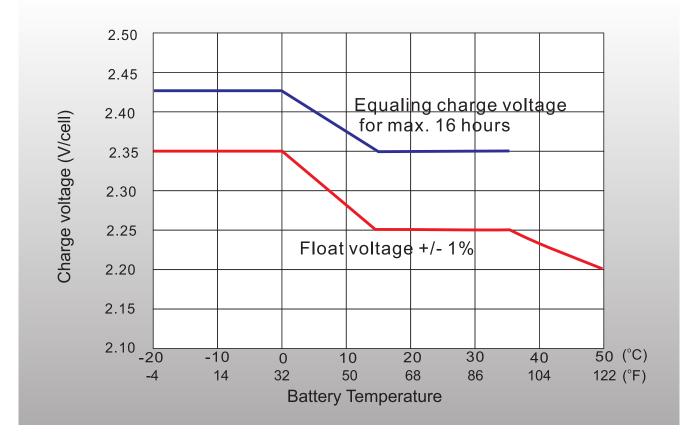
Rated Voltage	2V						
Nominal Capacity	600Ah	C10 ,1.80V/cell					
Dimensions	Length	145mm(5.71 in.)					
	Width	206mm(8.11 in.)					
	Container height	646mm(25.43 in.)					
	Total height	681mm(26.81 in.)					
Approx. weight	48.0Kg (*	105.8 lbs)					
Terminal	Μ	18					
Container material	ABS						
	780.0 Ah	(100hr,7.80A,1.80V/cell)					
Rated capacity (25°C)	600.0 Ah	(10hr,60.0A,1.80V/cell)					
Rated Capacity (25 C)	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	4800A						
Internal resistance (25°C)	Approx.0.62mΩ						
	Discharge	-20°C~55°C (-4°F~131°F)					
Operating temp. range	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)						
Cycle Use	150.0A						
	Float	2.25V					
Effect of temp. to Capacity	Temp. Coefficient	-3mV/cell/ºC					
	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 mo	onth at 25°C					



Constant Current Discharge (Amperes) at 25°C (77°F)											
F.V/Time	1h	2h	3h	5h	8h	10h	24h	48h	72h	100h	120h
1.85V/cell	268.1	181.3	139.2	95.2	66.7	56.2	26.7	14.0	10.0	7.61	6.56
1.80V/cell	300.6	198.6	151.4	102.6	71.4	60.0	27.6	14.5	10.4	7.80	6.75
1.75V/cell	312.6	205.5	154.8	104.7	72.6	61.0	27.8	14.8	10.7	7.96	6.85
1.70V/cell	326.2	210.7	157.9	106.2	73.6	61.7	28.3	15.1	10.8	8.07	6.94
1.67V/cell	334.8	214.1	160.9	107.9	74.5	62.2	28.5	15.3	10.9	8.21	7.03
1.60V/cell	339.9	217.6	162.7	108.9	75.0	62.7	28.8	15.4	11.0	8.30	7.11

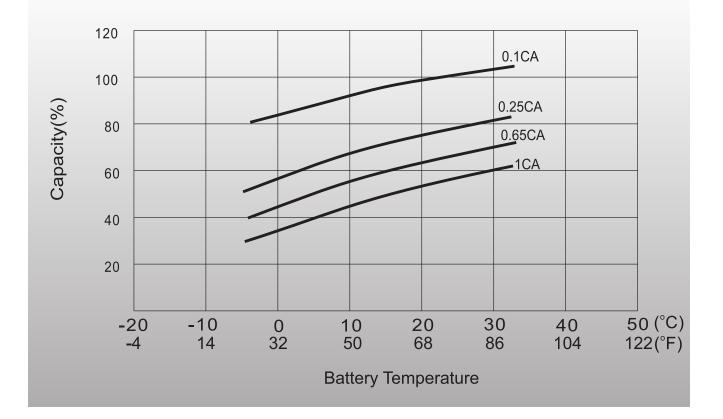
Constant Power Discharge (Watts/Cell) at 25°C (77°F)											
F.V/Time	1h	2h	3h	5h	8h	10h	24h	48h	72h	100h	120h
1.85V/cell	517.5	352.3	271.5	187.0	132.3	111.8	53.4	27.9	20.2	15.3	13.2
1.80V/cell	579.0	385.1	293.9	200.7	141.4	119.1	55.1	29.0	20.9	15.7	13.6
1.75V/cell	597.8	393.7	299.0	204.2	143.5	120.9	55.4	29.6	21.4	16.0	13.8
1.70V/cell	618.3	402.4	304.2	207.6	145.0	122.1	56.3	30.2	21.6	16.2	13.9
1.67V/cell	630.2	409.3	309.3	209.3	146.4	123.1	56.7	30.4	21.7	16.4	14.1
1.60V/cell	637.1	412.7	311.0	211.0	147.1	123.8	57.1	30.7	21.9	16.6	14.2

Charge voltage vs Ambient Temp. Curve

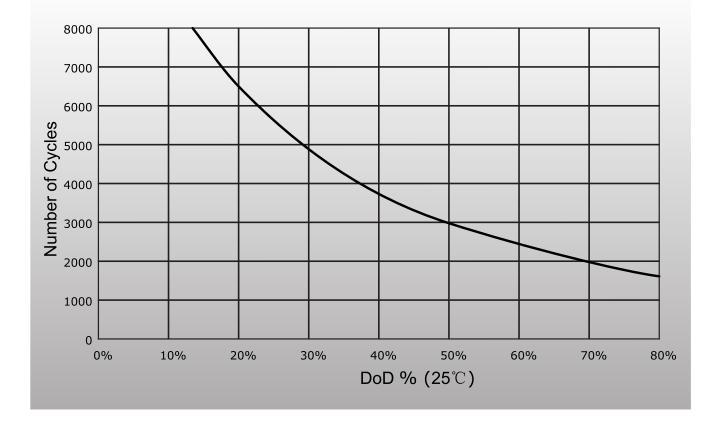




Temperature Effects in relation to Battery Capacity

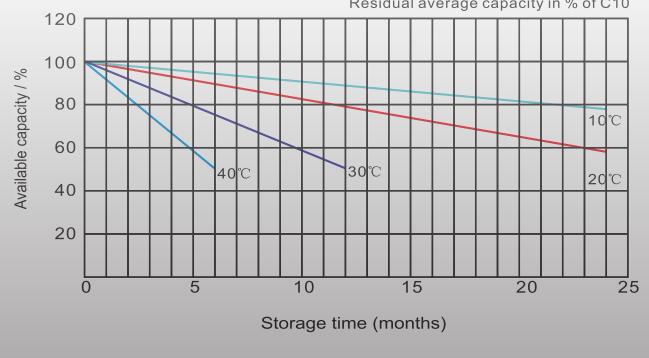


Cycle Life in Relation to DOD





General Relation of Capacity vs Storage Time



Residual average capacity in % of C10



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Starmax Corporation 1585 Cliveden Avenue, Delta, British Columbia V3M 6M1, Canada Phone: +1 888 669 1310 Email: info@starmaxbatteries.com Website: www.starmaxbatteries.com

