

STARMAX

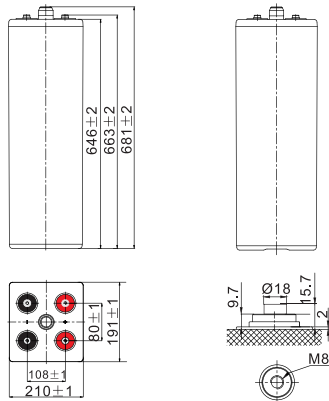
OPzV TUBULAR GEL BATTERIES

OPzV800-2



OPzV800-2 (2V 800Ah)

LAYOUT



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

Applications

- ✓ Green energy systems (solar, wind, hydro, etc)
- ✓ Telecommunications installations
- ✓ Solar power stations
- ✓ Alarm installations
- ✓ Railway crossing
- ✓ Street lightening
- ✓ Pump systems
- ✓ Signal station
- ✓ Street signs
- ✓ Traffic lights
- ✓ Lawn lamp

Standards

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



SPECIFICATIONS

Rated Voltage	2V	
Nominal Capacity	800Ah	C ₁₀ , 1.80V/cell
Dimensions	Length	191mm(7.52 in.)
	Width	210mm(8.27 in.)
	Container height	646mm(25.43 in.)
	Total height	681mm(26.81 in.)
Approx. weight	65.1Kg (143.52 lbs)	
Terminal	M8	
Container material	ABS	
Rated capacity (25°C)	1040.0 Ah	(100hr,10.4A,1.80V/cell)
	800.0 Ah	(10hr,80.0A,1.80V/cell)
	697.5 Ah	(5hr,139.5A,1.75V/cell)
	612.0 Ah	(3hr,204.0A,1.75V/cell)
	446.0 Ah	(1hr,446.0A,1.65V/cell)
Max. discharge current	6400A	
Internal resistance (25°C)	Approx.0.50mΩ	
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)	
Cycle Use	200.0A	
Effect of temp. to Capacity	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	

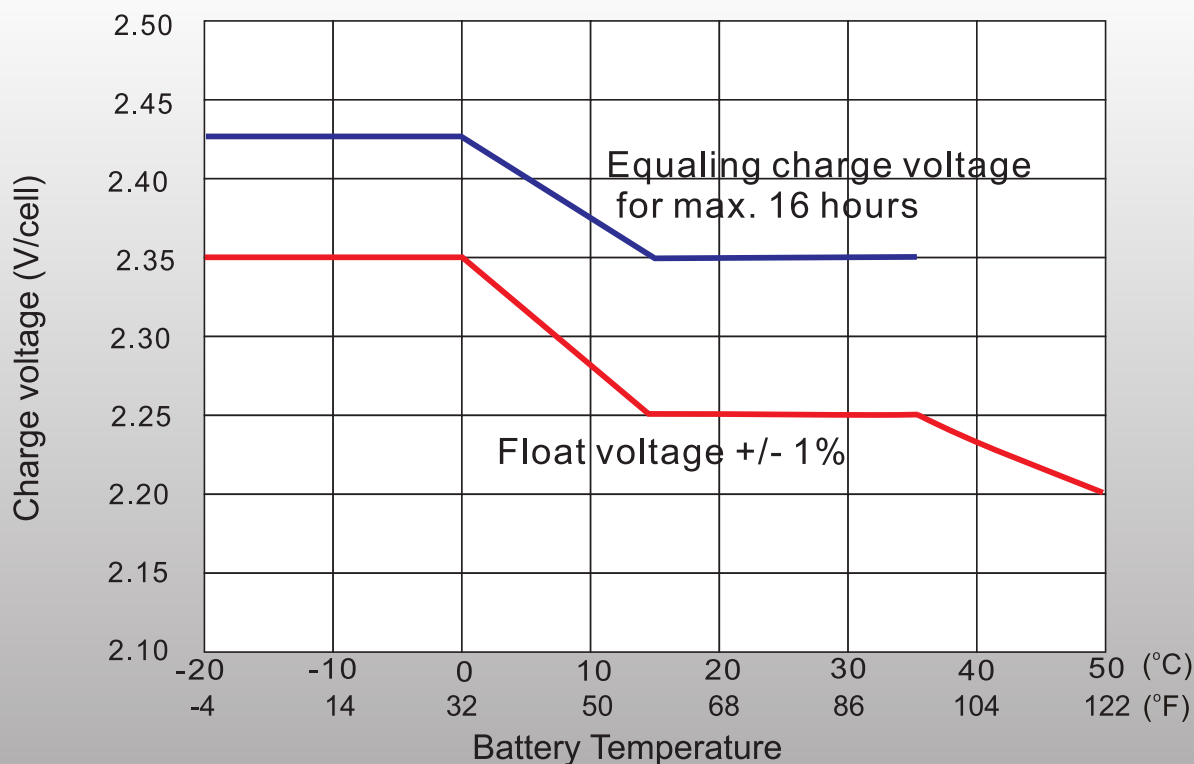
Constant Current Discharge (Amperes) at 25°C (77°F)

F.V/Time	1h	2h	3h	5h	8h	10h	24h	48h	72h	100h	120h
1.85V/cell	357.5	241.8	185.6	127.0	89.0	75.0	35.6	18.6	13.4	10.1	8.75
1.80V/cell	400.8	264.8	201.9	136.8	95.2	80.0	36.8	19.3	13.9	10.4	9.00
1.75V/cell	416.7	274.0	206.4	139.5	96.8	81.4	37.1	19.8	14.2	10.6	9.13
1.70V/cell	435.0	280.9	210.6	141.6	98.2	82.3	37.7	20.2	14.4	10.8	9.26
1.67V/cell	446.3	285.5	214.5	143.9	99.3	83.0	38.0	20.4	14.5	10.9	9.38
1.60V/cell	453.2	290.1	217.0	145.3	100.0	83.7	38.3	20.6	14.6	11.1	9.48

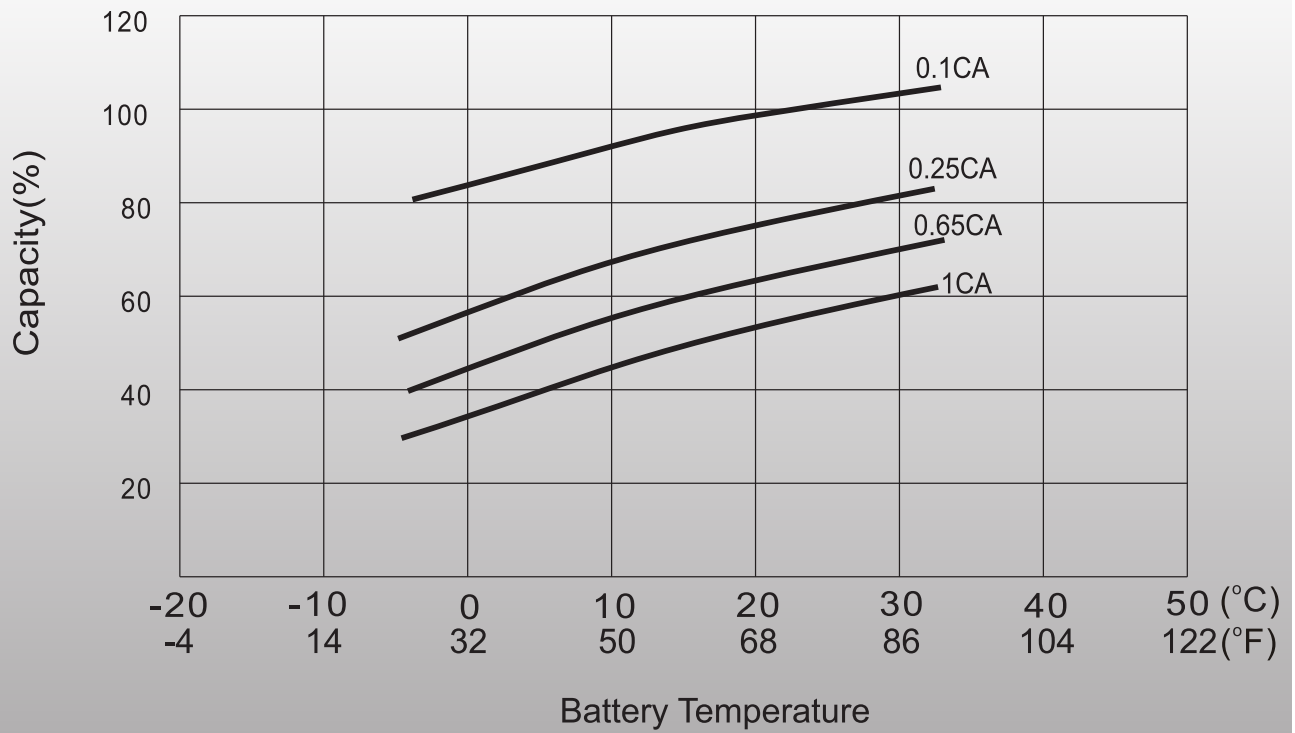
Constant Power Discharge (Watts/Cell) at 25°C (77°F)

F.V/Time	1h	2h	3h	5h	8h	10h	24h	48h	72h	100h	120h
1.85V/cell	690.0	469.7	362.0	249.4	176.4	149.0	71.2	37.3	26.9	20.4	17.6
1.80V/cell	772.0	513.5	391.8	267.7	188.6	158.9	73.5	38.6	27.8	20.9	18.1
1.75V/cell	797.0	525.0	398.7	272.2	191.3	161.1	73.9	39.5	28.5	21.3	18.3
1.70V/cell	824.4	536.5	405.6	276.8	193.4	162.7	75.0	40.2	28.8	21.6	18.6
1.67V/cell	840.3	545.7	412.4	279.1	195.2	164.1	75.6	40.6	29.0	21.9	18.8
1.60V/cell	849.4	550.3	414.7	281.4	196.1	165.0	76.2	41.0	29.1	22.1	19.0

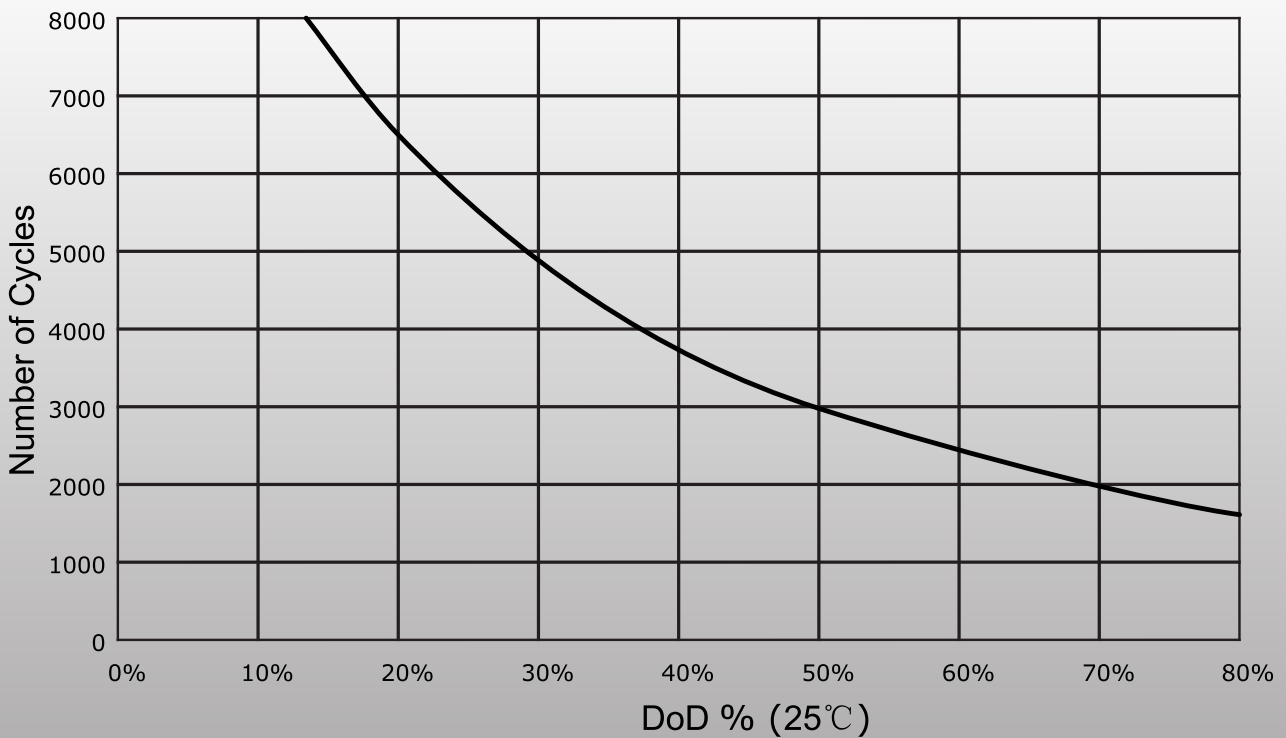
Charge voltage vs Ambient Temp. Curve



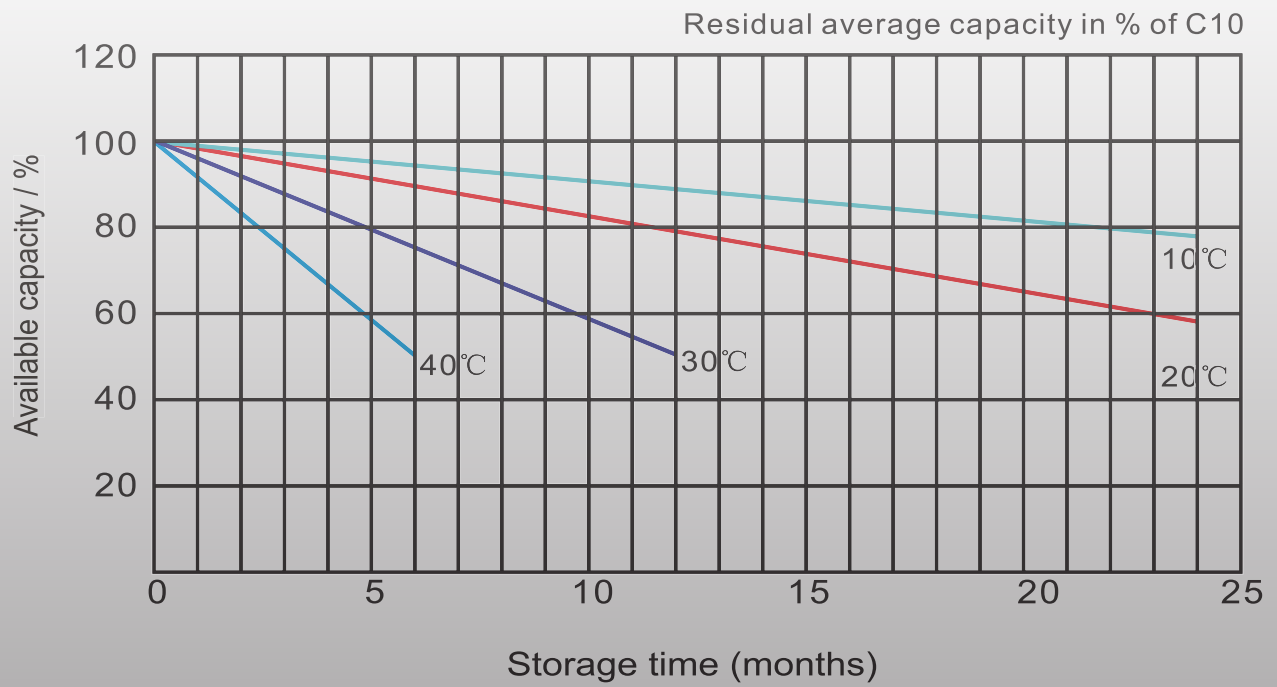
Temperature Effects in relation to Battery Capacity



Cycle Life in Relation to DOD



General Relation of Capacity vs Storage Time





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