

STARMAX

The world's leading battery brand



DEEP CYCLE GEL BATTERIES

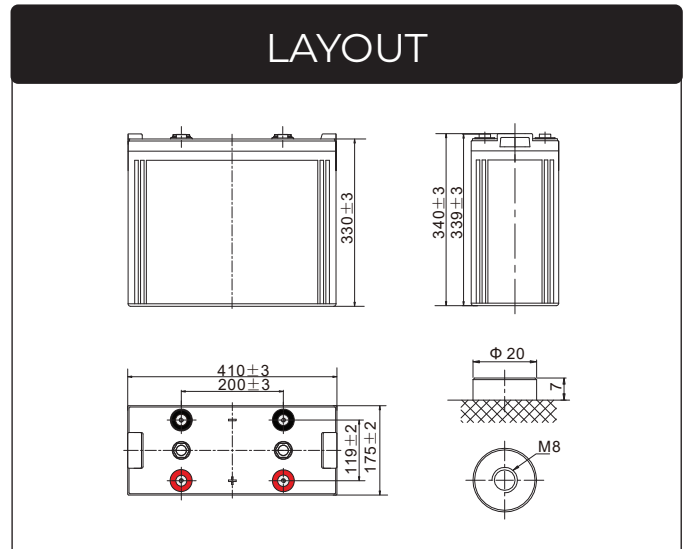
STG2-800 (2V 800Ah)



www.starmaxbatteries.com

STG SERIES-GEL BATTERIES

STG2-800



General Features

- ✓ Battery design life up to 16 years
- ✓ Special plate design guarantees battery floating life more than 4000 times
- ✓ High thermal capacity reduce the risk of thermal out of control and drying hard, and the battery can be used in bad environment
- ✓ Little water losing, and no electrolyte stratification phenomenon

Applications

- ✓ Telecommunications
- ✓ Solar system
- ✓ Wind power system
- ✓ Engine starting
- ✓ Wheelchair, Floor cleaning machines, Golf trolley, Boats

Standards

- ✓ IEC 60896 Certified
- ✓ Classified as "Long Life" according to Eurobat
- ✓ UL Certified
- ✓ Manufactured at Starmax® IATF16949, ISO 9001, ISO 14001 and ISO 45001 certified production facilities



SPECIFICATIONS

Rated Voltage	2V	
Nominal Capacity	800Ah	(C ₁₀ ,1.80V/cell)
Dimensions	Length	410±3mm (16.1 inches)
	Width	175±2mm (6.89 inches)
	Container height	330±3mm (13.0 inches)
	Total height	340±3mm (13.4 inches)
Approx. weight	50.6 Kg (111.6 lbs)	
Terminal	M8	
Container material	ABS	
Rated capacity (25°C)	848.0 Ah	C20(42.4A,1.80V/cell)
	800.0 Ah	C10(80.0A,1.80V/cell)
	687.0 Ah	C5(137.4A,1.75V/cell)
	616.8 Ah	C3(205.6A,1.75V/cell)
	378.3 Ah	C1(378.3A,1.60V/cell)
Max. discharge current	6400A (5s)	
Internal resistance (25°C)	Approx 0.60mΩ	
Operating temp. range	Discharge	-20~60°C (-4~140°F)
	Charge	-20~40°C (-4~104°F)
	Storage	-20~50°C (-4~122°F)
Nominal operating temp. range	25±3°C (77±5°F)	
Cycle Use	Initial Charging Current less than 200.0A. Voltage 2.40V~2.50V at 25°C (77°F)Temp. Coefficient -5mV/°C	
Standby Use	Initial Charging Current less than 200.0A. Voltage 2.23V~2.27V at 25°C (77°F)Temp. Coefficient -3mV/°C	
Effect of temp. to Capacity	40°C (104°F)	103%
	25°C (77°F)	100%
	0°C (32°F)	86%
Self discharge	STG series batteries may be stored for up to 6 months at 25°C(77°F) and then a freshening charge is required. For higher temperatures the time interval will be shorter.	

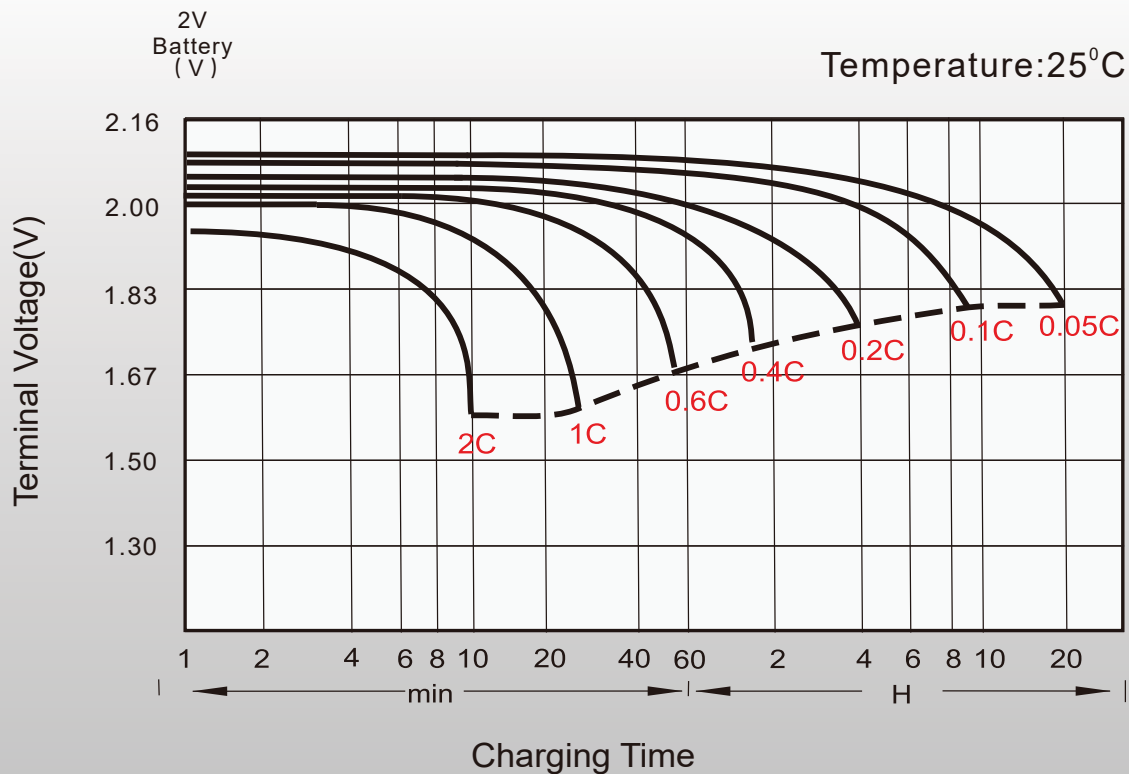
Constant Current Discharge (Amperes) at 25°C (77°F)

F.V/Time	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	768.1	679.3	561.3	450.4	397.8	304.3	244.2	185.1	148.9	124.8	109.1	89.0	75.0	40.2
1.80V/cell	893.2	782.8	634.5	503.6	440.3	332.9	265.7	200.3	160.5	134.4	117.0	95.3	80.0	42.4
1.75V/cell	944.8	821.4	663.2	524.1	456.5	344.1	273.8	205.6	164.5	137.4	119.4	97.0	81.2	42.9
1.70V/cell	998.6	864.4	692.4	544.0	473.3	355.7	282.5	211.6	168.6	140.6	122.0	98.8	82.5	43.5
1.67V/cell	1030.0	888.8	709.9	556.2	483.2	362.1	287.3	214.8	171.0	142.3	123.5	99.8	83.2	43.8
1.60V/cell	1104.0	946.4	750.0	584.9	506.7	378.3	299.2	222.7	176.6	146.7	126.9	102.1	85.0	44.6

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

F.V/Time	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	1475.6	1308.9	1084.8	873.3	773.3	593.2	477.2	362.9	292.5	245.6	215.0	175.9	148.4	79.9
1.80V/cell	1698.0	1493.7	1216.1	969.3	850.0	645.4	516.6	391.0	314.2	263.7	230.1	187.9	158.1	84.2
1.75V/cell	1777.6	1552.2	1260.3	1001.0	875.2	663.0	529.5	399.7	320.9	268.9	234.2	191.0	160.3	85.2
1.70V/cell	1857.5	1617.2	1303.9	1030.8	901.1	681.3	543.6	409.5	327.8	274.2	238.7	193.9	162.5	86.2
1.67V/cell	1903.4	1652.4	1329.7	1048.7	915.5	691.0	550.7	414.6	331.5	277.0	241.1	195.7	163.8	86.8
1.60V/cell	2004.2	1732.0	1386.8	1091.2	951.0	715.9	569.5	427.3	340.8	284.3	246.8	199.7	166.8	88.3

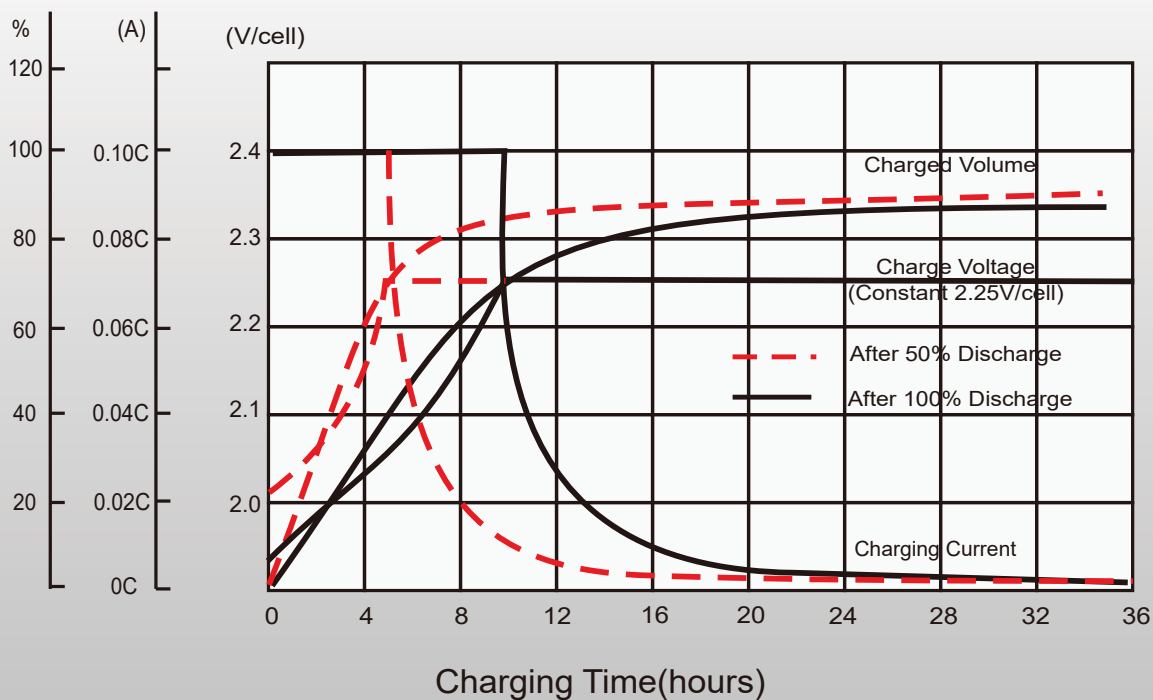
Discharge Characteristics



Float Charging Characteristics

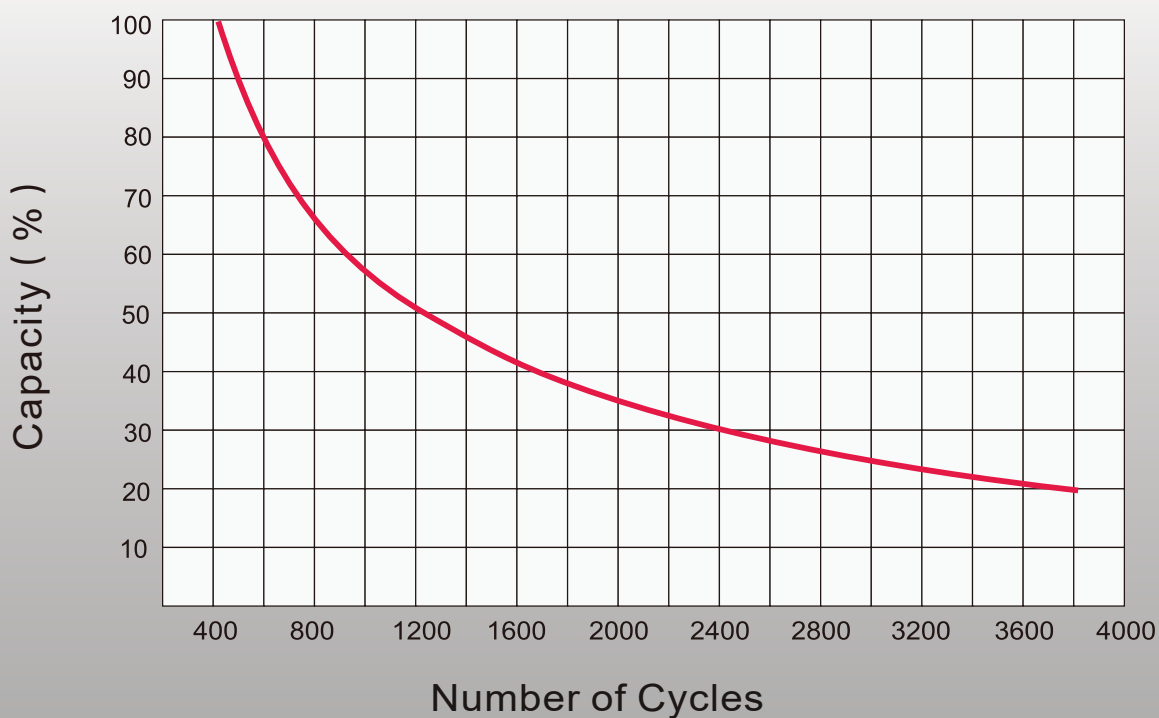
Charge Volume
Charging Current
Charging Voltage

0.1CA-2.25V/cell Temperature: 25°C

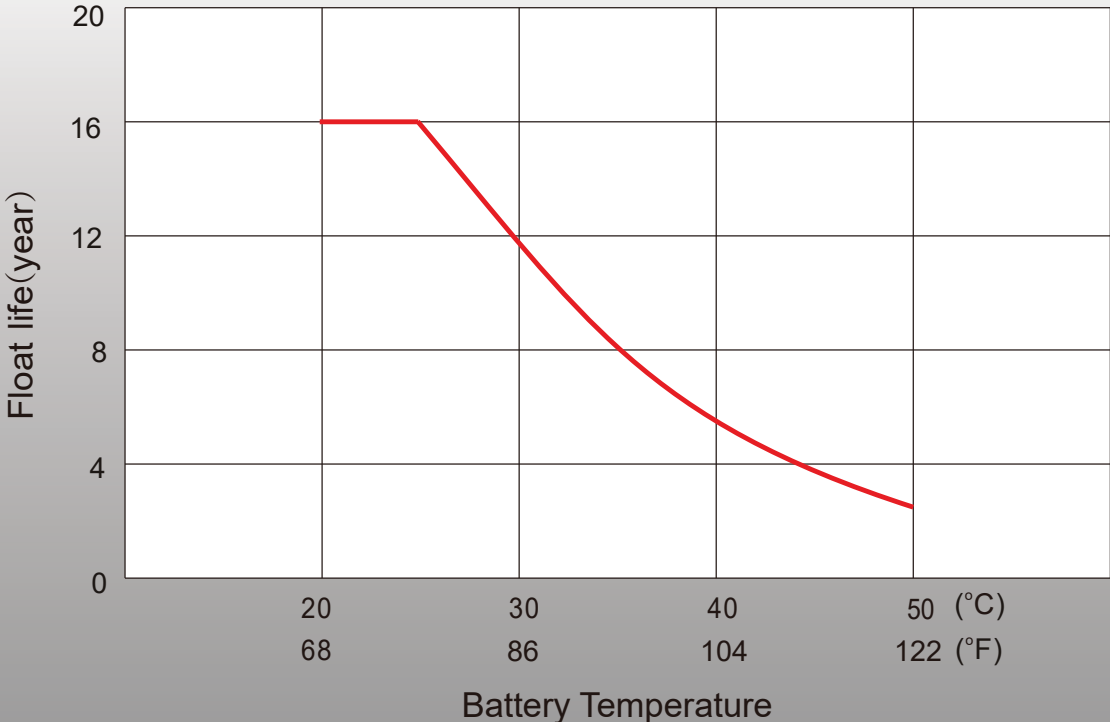


Cycle Life in Relation to Depth of Discharge

Acc.to IEC 896-2 (25 °C / 77°F)



Effect of Temperature on Long Term Float Life





Starmax Corporation

1585 Cliveden Avenue, Delta, British Columbia
V3M 6M1, Canada

Phone: +1 888 669 1310

Email: info@starmaxbatteries.com

Website: www.starmaxbatteries.com

