

STARMAX

The world's leading battery brand



DEEP CYCLE GEL BATTERIES

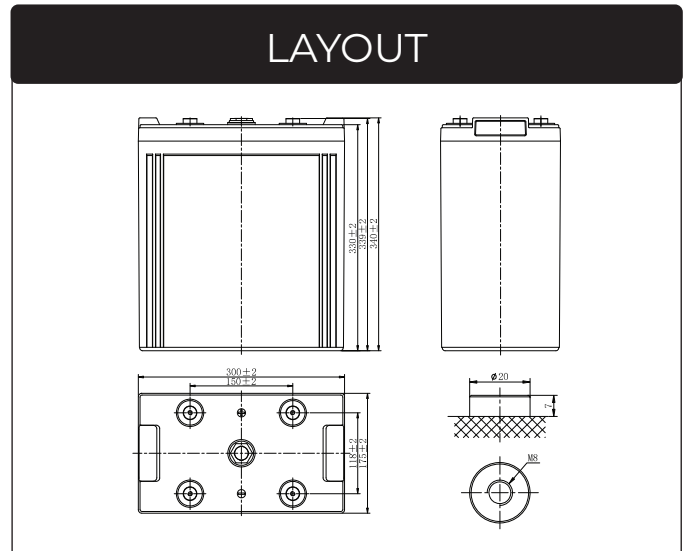
STG2-600 (2V 600Ah)



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STG SERIES-GEL BATTERIES

STG2-600



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 145001 certified production facilities



SPECIFICATIONS

Rated Voltage	2V	
Nominal Capacity	600Ah	(C ₁₀ ,1.80V/cell)
Dimensions	Length	300±2mm (11.8 inches)
	Width	175±2mm (6.89 inches)
	Container height	330±2mm (13.0 inches)
	Total height	340±2mm (13.4 inches)
Approx. weight	39.0 Kg (86.0 lbs)	
Terminal	M8	
Container material	ABS	
Rated capacity (25°C)	636.0 Ah	C20(31.8A,1.80V/cell)
	600.0 Ah	C10(60.0A,1.80V/cell)
	515.5 Ah	C5(103.1A,1.75V/cell)
	462.6 Ah	C3(154.2A,1.75V/cell)
	283.7 Ah	C1(283.7A,1.60V/cell)
Max. discharge current	4800A (5s)	
Internal resistance (25°C)	Approx 0.66mΩ	
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 150.0A. Voltage 2.40V~2.50V at 25°C (77°F)Temp. Coefficient -5mV/°C	
Standby Use	Initial Charging Current less than 150.0A. 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.	

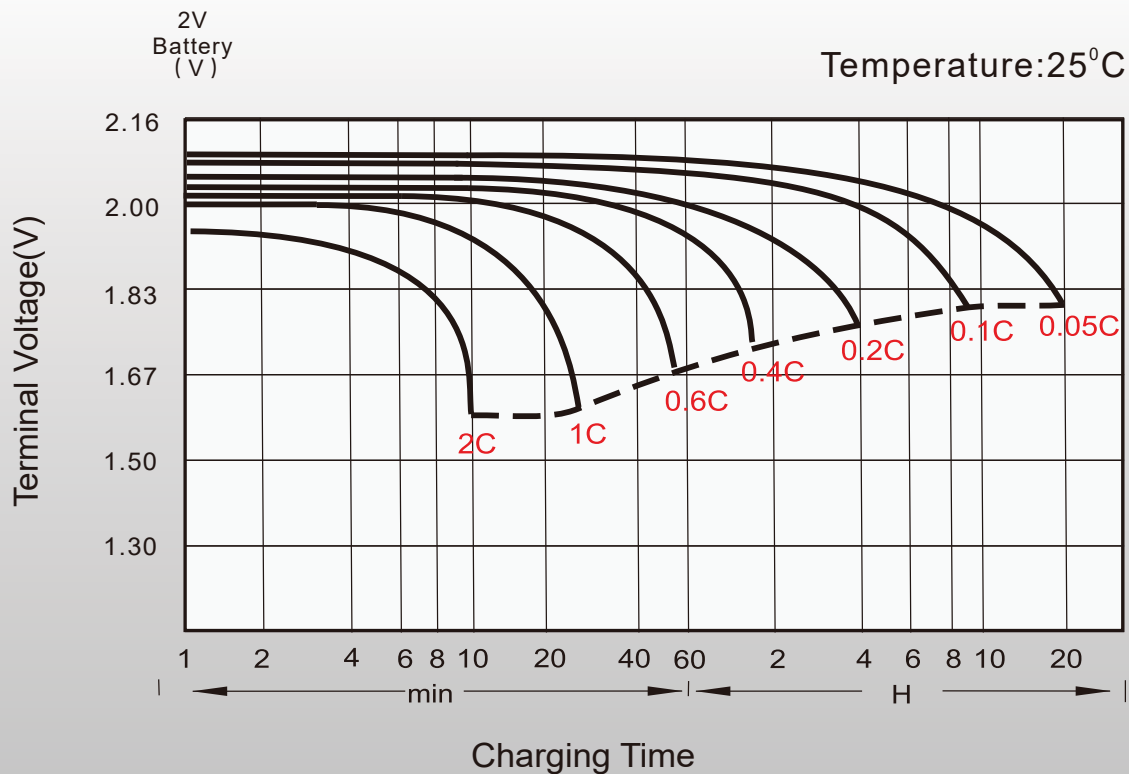
Constant Current Discharge (Amperes) at 25°C (77°F)

F.V/Time	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	576.0	509.5	420.9	337.8	298.4	228.2	183.1	138.8	111.6	93.6	81.8	66.8	56.2	30.1
1.80V/cell	669.9	587.1	475.9	377.7	330.2	249.7	199.3	150.2	120.3	100.8	87.7	71.5	60.0	31.8
1.75V/cell	708.6	616.1	497.4	393.1	342.4	258.1	205.4	154.2	123.4	103.1	89.6	72.8	60.9	32.2
1.70V/cell	748.9	648.3	519.3	408.0	355.0	266.8	211.9	158.7	126.5	105.4	91.5	74.1	61.9	32.6
1.67V/cell	772.5	666.6	532.4	417.1	362.4	271.6	215.5	161.1	128.2	106.7	92.6	74.8	62.4	32.9
1.60V/cell	828.0	709.8	562.5	438.7	380.0	283.7	224.4	167.0	132.5	110.0	95.2	76.6	63.8	33.4

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	1106.7	981.7	813.6	655.0	580.0	444.9	357.9	272.2	219.4	184.2	161.3	131.9	111.3	59.9
1.80V/cell	1273.5	1120.3	912.1	727.0	637.5	484.0	387.5	293.3	235.7	197.8	172.6	140.9	118.6	63.2
1.75V/cell	1333.2	1164.2	945.2	750.7	656.4	497.2	397.1	299.8	240.7	201.7	175.7	143.2	120.2	63.9
1.70V/cell	1393.2	1212.9	977.9	773.1	675.8	511.0	407.7	307.2	245.9	205.7	179.0	145.5	121.9	64.7
1.67V/cell	1427.5	1239.3	997.3	786.5	686.6	518.2	413.1	310.9	248.7	207.8	180.8	146.8	122.8	65.1
1.60V/cell	1503.2	1299.0	1040.1	818.4	713.3	536.9	427.1	320.5	255.6	213.2	185.1	149.8	125.1	66.2

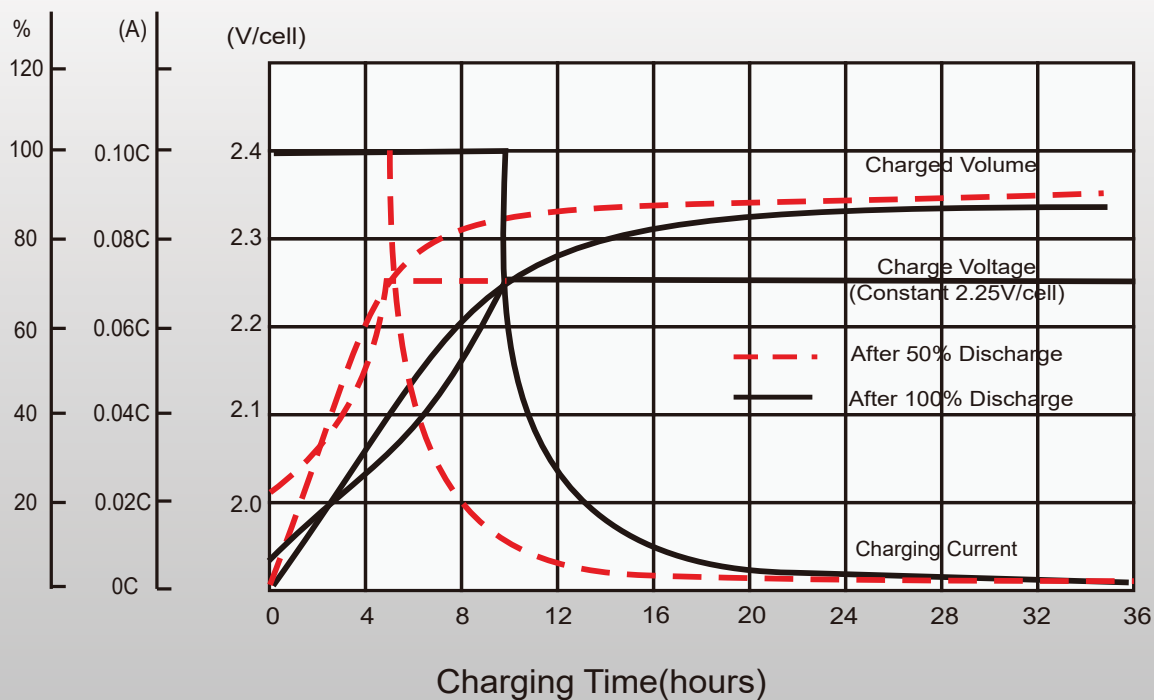
Discharge Characteristics



Float Charging Characteristics

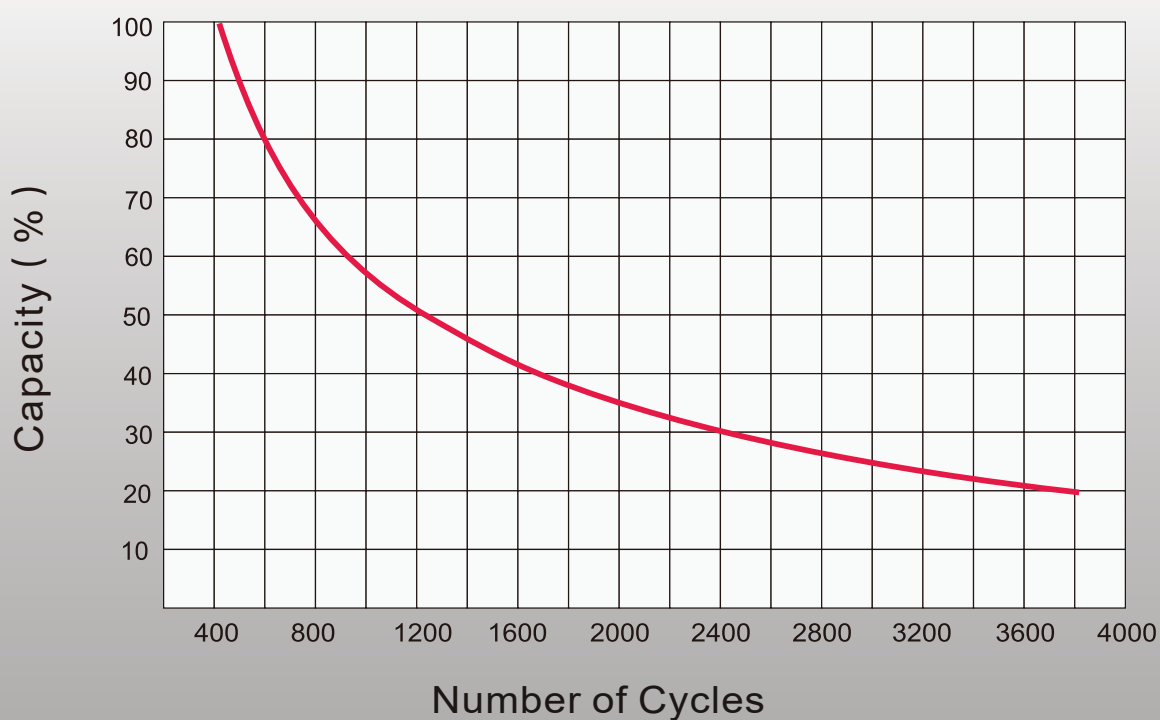
Charge Volume
Charging Current
Charging Voltage

0.1CA-2.25V/cell Temperature: 25°C

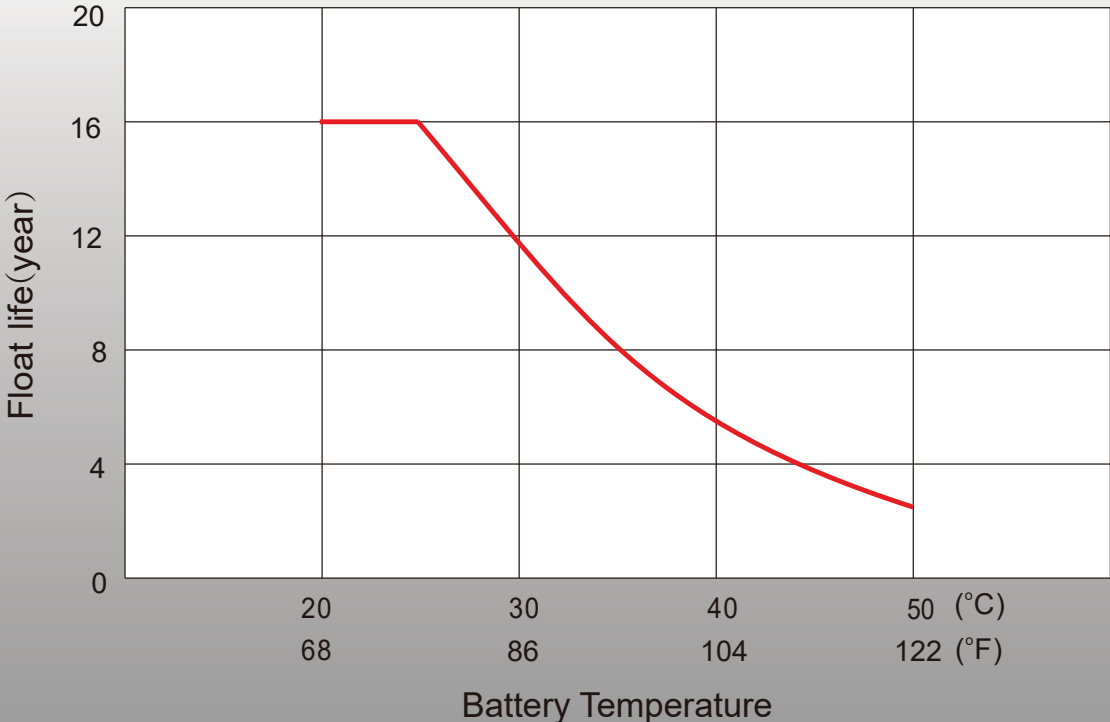


Cycle Life in Relation to Depth of Discharge

Acc.to IEC 896-2 (25 °C / 77°F)



Effect of Temperature on Long Term Float Life





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