

STARMAX

The world's leading battery brand



DEEP CYCLE GEL BATTERIES

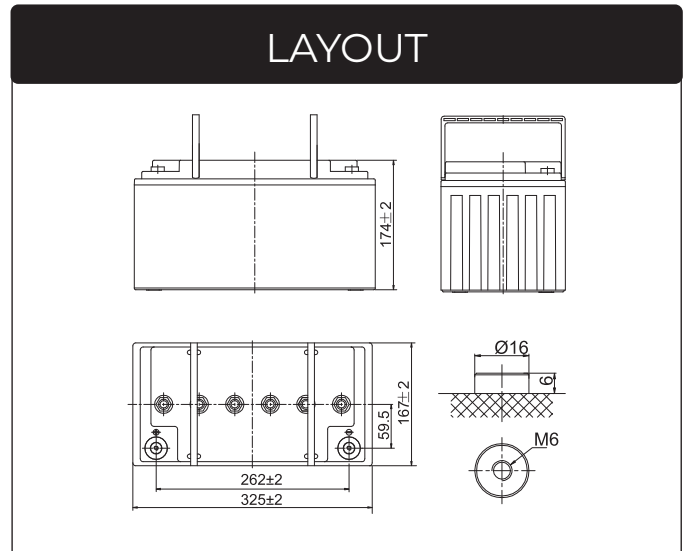
STG12-65 (12V 65Ah)



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STG SERIES-GEL BATTERIES

STG12-65



General Features

- ✓ Battery design life up to 12 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	12V	
Nominal Capacity	(C ₂₀ ,1.80V/cell)	65Ah
Dimensions	Length	325±2mm (12.8 inches)
	Width	167±2mm (6.57 inches)
	Container height	174±2mm (6.85 inches)
	Total height	174±2mm (6.85 inches)
Approx. weight	20.5kg (45.2 lbs)	
Terminal	M6	
Container material	ABS	
Rated capacity (25°C)	65.0 Ah	C20(3.25A,1.80V/cell)
	60.0 Ah	C10(6.00A,1.80V/cell)
	53.0 Ah	C5(10.6A,1.75V/cell)
	47.4 Ah	C3(15.8A,1.75V/cell)
	38.0 Ah	C1(38.0A,1.60V/cell)
Max. discharge current	650A (5s)	
Internal resistance (25°C)	Approx 9.4mΩ	
Operating temp. range	Discharge	-20~55°C (-4~131°F)
	Charge	-20~40°C (-4~104°F)
	Storage	-15~50°C (5~122°F)
Nominal operating temp. range	25±3°C (77±5°F)	
Standby Use	Initial Charging Current less than 16.25A. Voltage 2.23V~2.27V at 25°C (77°F)Temp. Coefficient -3mV/°C	
Equalization Use	Initial Charging Current less than 16.25A. Voltage 2.30V~2.37V at 25°C (77°F)Temp. Coefficient -4mV/°C	
Cycle Use	Initial Charging Current less than 16.25A . Voltage 2.40V~2.50V at 25°C (77°F)Temp. Coefficient -5mV/°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.	

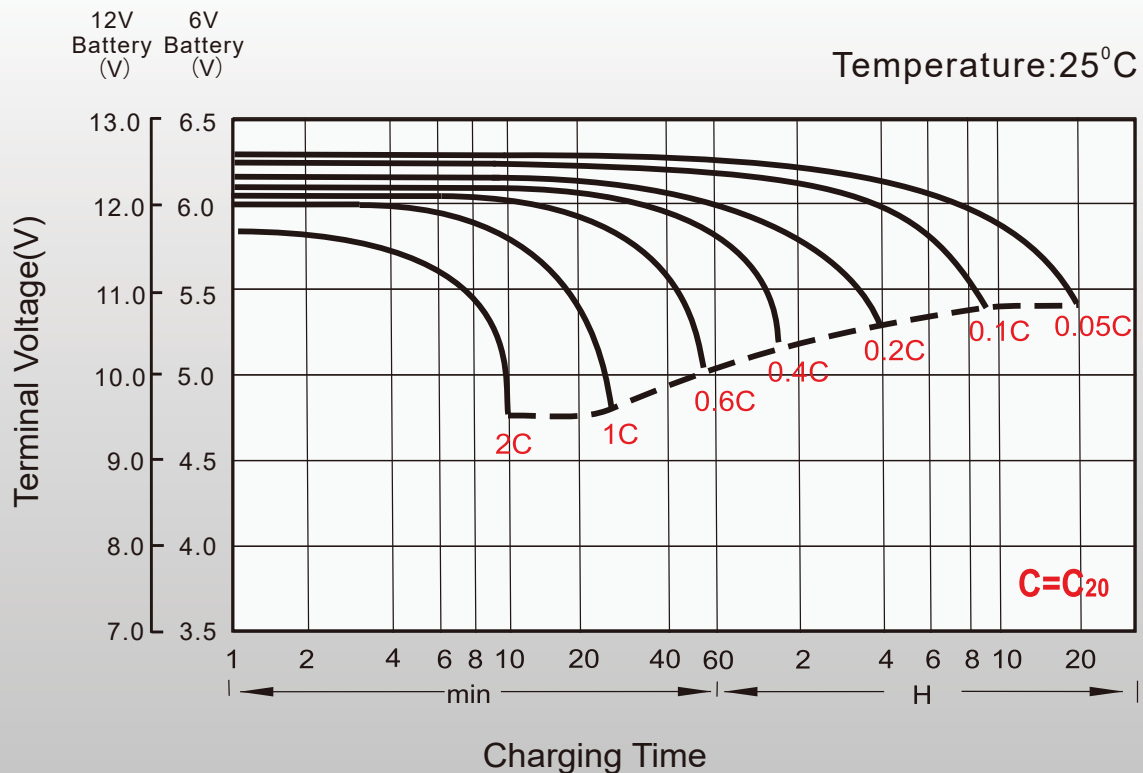
Constant Current Discharge (Amperes) at 25°C (77°F)

F.V/Time	10min	15min	20min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	79.0	68.5	53.8	48.7	35.6	28.2	21.9	17.4	13.8	11.3	9.78	8.56	6.94	5.88	3.04
1.80V/cell	89.6	77.6	60.9	53.0	37.7	31.2	23.2	19.2	15.2	12.2	10.3	9.05	7.24	6.00	3.25
1.75V/cell	97.2	84.0	65.7	54.1	39.1	35.0	25.4	20.6	15.8	12.6	10.6	9.37	7.35	6.18	3.27
1.70V/cell	101.7	88.2	69.2	54.5	39.7	36.1	26.0	21.0	16.1	12.6	10.7	9.37	7.42	6.18	3.32
1.67V/cell	106.9	91.8	71.6	56.0	40.5	36.8	26.5	21.4	16.3	12.8	10.9	9.50	7.48	6.24	3.35
1.60V/cell	110.6	94.7	73.4	56.8	41.1	38.0	27.3	21.9	16.5	13.1	11.2	9.65	7.54	6.30	3.39

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

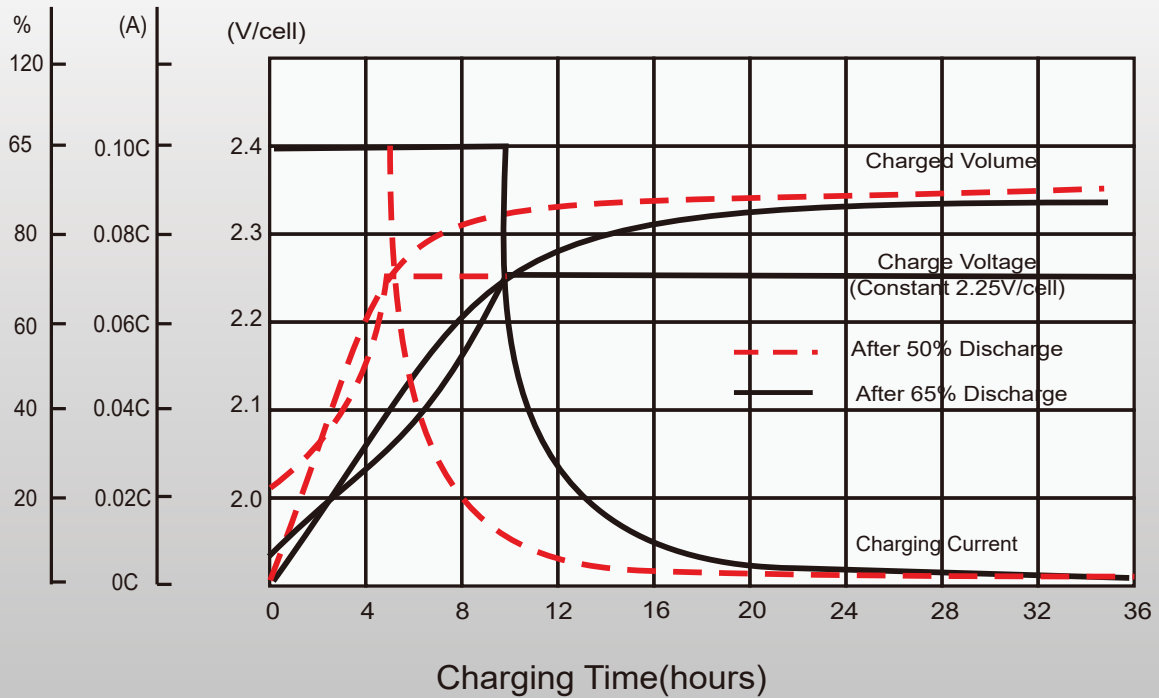
F.V/Time	10min	15min	20min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	148.5	129.6	102.4	93.1	68.5	54.8	42.6	34.1	27.1	22.2	19.3	16.9	13.7	11.7	6.05
1.80V/cell	166.2	145.0	114.5	100.5	72.1	60.2	44.9	37.3	29.7	23.9	20.2	17.8	14.3	11.9	6.46
1.75V/cell	177.3	154.8	122.3	101.8	74.2	67.1	48.9	39.8	30.7	24.6	20.8	18.4	14.5	12.2	6.50
1.70V/cell	182.3	160.3	127.1	101.5	74.8	68.6	49.7	40.4	31.1	24.6	21.0	16.8	14.6	12.2	6.58
1.67V/cell	189.5	165.3	130.6	103.7	75.9	69.7	50.6	41.1	31.5	24.9	21.3	18.6	14.7	12.3	6.63
1.60V/cell	192.1	167.6	132.4	104.1	76.3	71.3	51.5	41.6	31.7	25.2	21.6	18.8	14.7	12.4	6.71

Discharge Characteristics



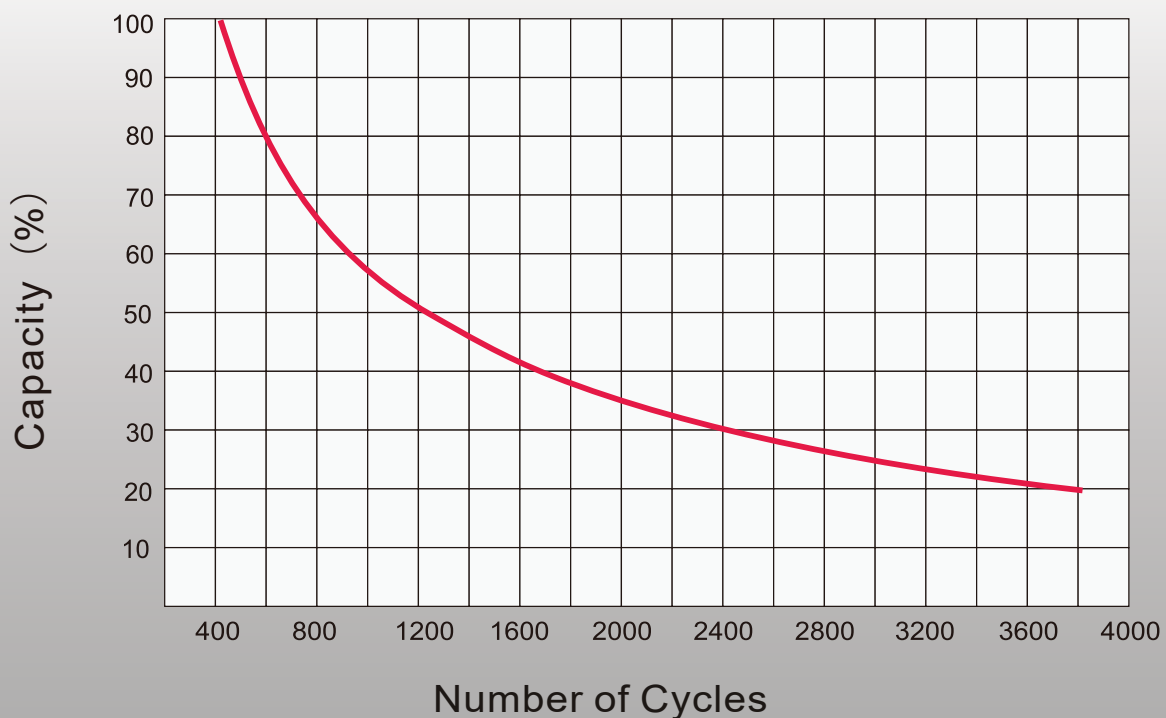
Float Charging Characteristics

Charge Volume Charging Current Charging Voltage 0.1CA-2.25V/cell Temperature: 25°C

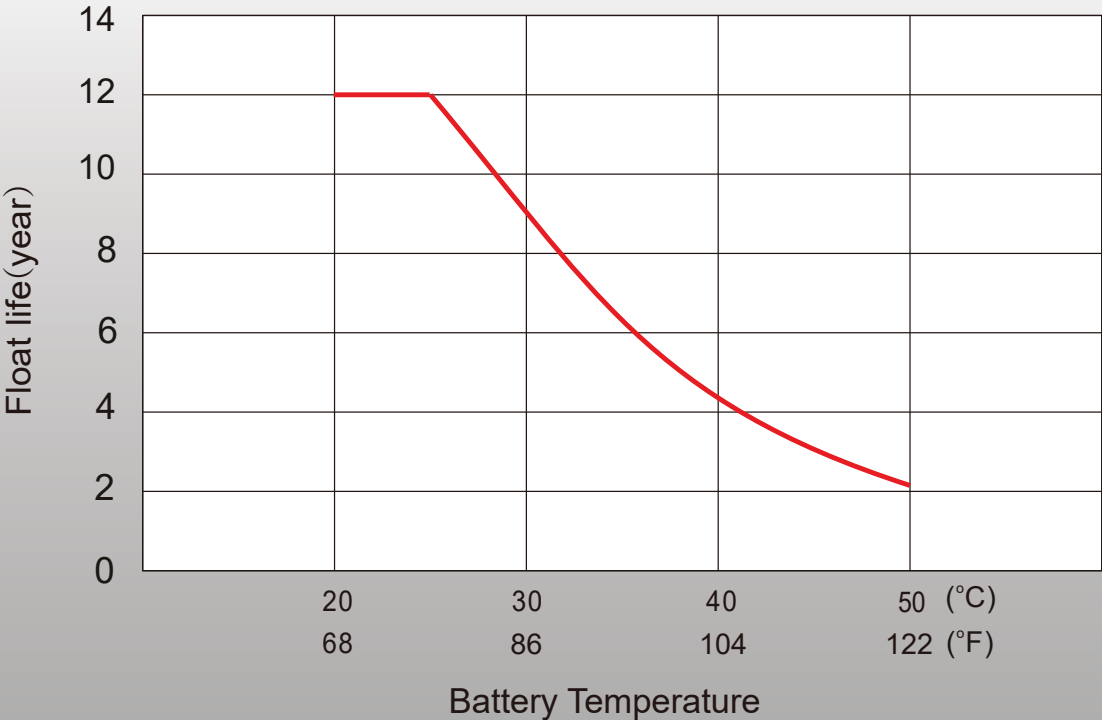


Cycle Life in Relation to Depth of Discharge

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

