

STARMAX

The world's leading battery brand



TELECOMMUNICATION **BATTERIES**

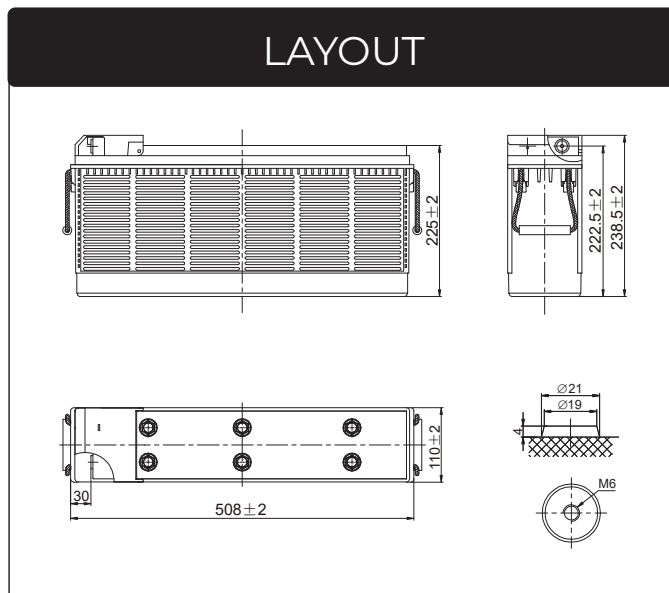
STFG12-150 (12V 144Ah)



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FT SERIES - FRONT TERMINAL

STFG12-150



General Features

- ✓ Front terminals make the installation, maintenance and supervision easy
- ✓ Shield designs protect terminals from short circuit and show good appearance
- ✓ High thermal capacity can be used in bad environment
- ✓ Long time discharge

Applications

- ✓ Communication system
- ✓ Power system of special network or local area network
- ✓ UPS, standby power supply
- ✓ Power station systems
- ✓ Marine systems

Standards

- ✓ IEC 60896 Certified
- ✓ Classified as "Very Long Life" according to Eurobat
- ✓ UL, CE Certified
- ✓ Manufactured in Starmax® IATF 16949, ISO 9001, ISO 14001 and ISO 45001 certified production facilities



SPECIFICATIONS

Rated Voltage	12V	
Nominal Capacity	144Ah	(C ₂₀ ,1.80V/cell)
Dimensions	Length	551±3mm (21.7 inches)
	Width	110±2mm (4.33 inches)
	Container height	288±3mm (11.3 inches)
	Total height	288±3mm (11.3 inches)
Approx. weight	47.4 Kg (104.5 lbs)	
Terminal	M6	
Container material	ABS	
Rated capacity (25°C)	144.0 Ah	(20hr,7.20A,1.80V/cell)
	135.0 Ah	(10hr,13.5A,1.80V/cell)
	114.0 Ah	(5hr,22.8A,1.75V/cell)
	103.5 Ah	(3hr,34.5A,1.75V/cell)
	73.7 Ah	(1hr,73.7A,1.67V/cell)
Max. discharge current	1500A (5s)	
Internal resistance (25°C)	Approx 5.5mΩ	
Operating temp. range	Discharge	-20~60°C (-4~140°F)
	Charge	-20~40°C (-4~104°F)
	Storage	-20~500°C (-4~122°F)
Nominal operating temp. range	25±3°C (77±5°F)	
Standby Use	Initial Charging Current less than 32.5A. Voltage 14.4V~15.0V at 25°C (77°F)Temp. Coefficient -30mV/°C	
Equalization Use	Initial Charging Current less than 32.5A. Voltage 13.38V~13.62V at 25°C (77°F)Temp. Coefficient -20mV/°C	
Effect of temp. to Capacity	40°C (104°F)	103%
	25°C (77°F)	100%
	0°C (32°F)	86%
Self discharge	STFG 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.	

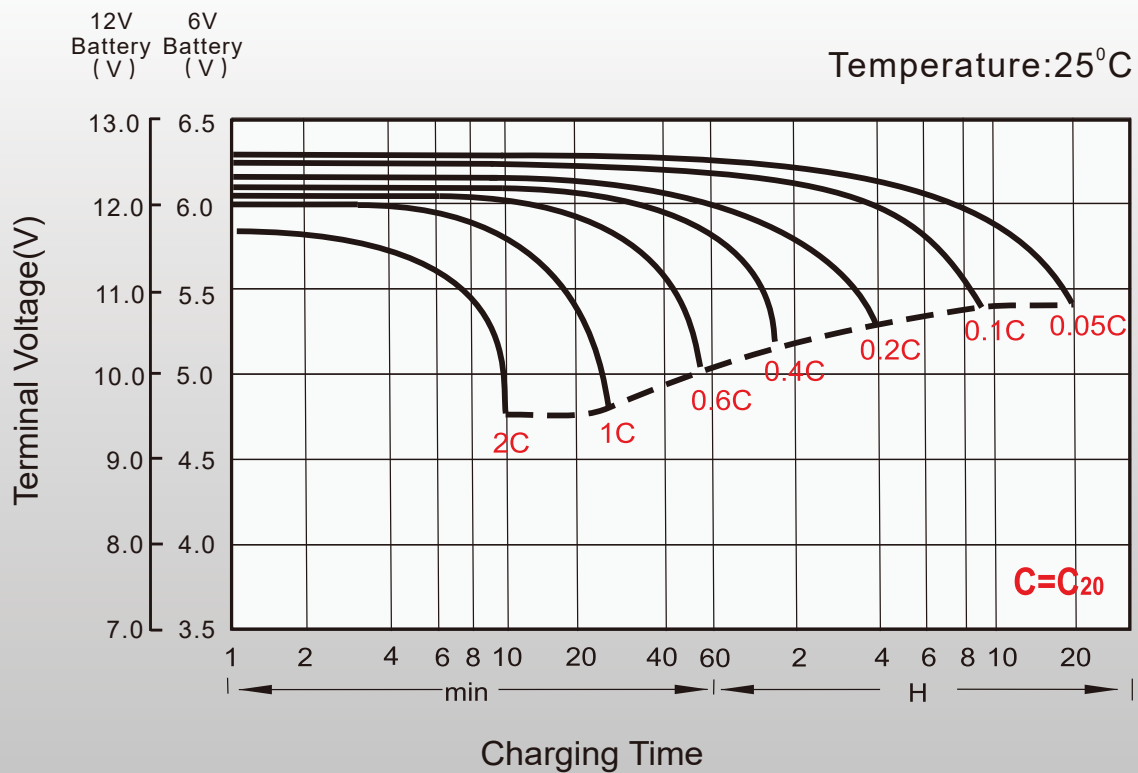
Constant Current Discharge (Amperes) at 25°C (77°F)

F.V/Time	20min	30min	45min	1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	20h
1.85V/cell	113.4	89.0	67.9	56.9	39.9	30.4	25.2	21.8	18.7	16.6	15.0	13.7	12.9	6.91
1.80V/cell	129.9	99.5	74.9	62.8	43.2	32.6	26.7	22.9	19.7	17.4	15.7	14.4	13.5	7.20
1.75V/cell	146.0	109.4	81.0	67.2	45.8	34.5	28.0	23.8	20.4	18.0	16.2	14.8	13.8	7.34
1.70V/cell	157.3	117.2	86.0	71.1	48.6	35.9	28.9	24.5	21.1	18.6	16.7	15.2	14.1	7.44
1.67V/cell	163.7	121.8	89.0	73.7	49.8	37.0	29.6	25.0	21.4	18.8	16.9	15.4	14.3	7.51
1.60V/cell	177.4	130.3	95.6	78.3	51.8	38.5	30.7	25.8	21.9	19.2	17.2	15.7	14.5	7.62

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

F.V/Time	20min	30min	45min	1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	20h
1.85V/cell	217.1	171.6	131.7	110.7	78.1	59.6	49.6	43.0	37.1	32.9	29.8	27.2	25.8	13.8
1.80V/cell	245.4	189.9	143.9	121.6	84.0	63.7	52.4	45.0	38.8	34.4	31.1	28.6	26.9	14.3
1.75V/cell	272.8	206.6	154.2	129.5	88.8	67.1	54.7	46.5	40.0	35.5	32.0	29.4	27.4	14.6
1.70V/cell	290.7	219.7	163.1	136.4	93.7	69.7	56.3	47.9	41.4	36.6	32.9	30.1	28.0	14.8
1.67V/cell	299.1	225.2	167.4	140.5	95.7	71.6	57.5	48.7	41.9	37.0	33.4	30.5	28.3	14.9
1.60V/cell	320.6	239.6	178.9	148.4	99.0	74.1	59.5	50.0	42.8	37.7	33.9	31.1	28.8	15.1

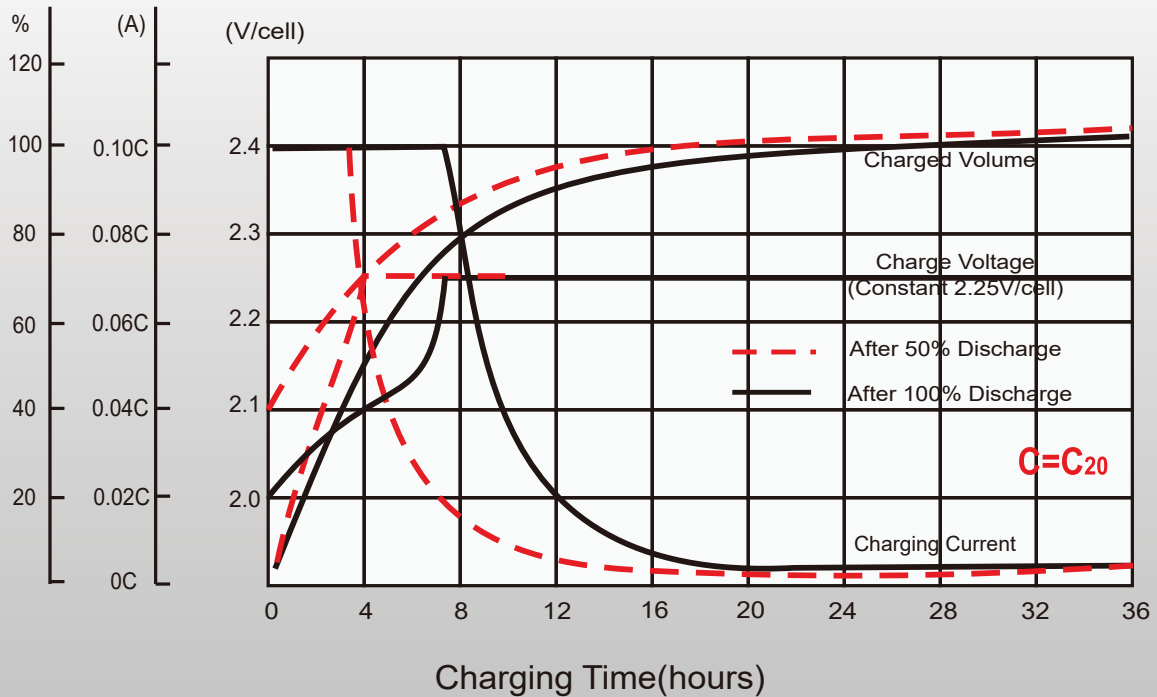
Discharge Characteristics



Float Charging Characteristics

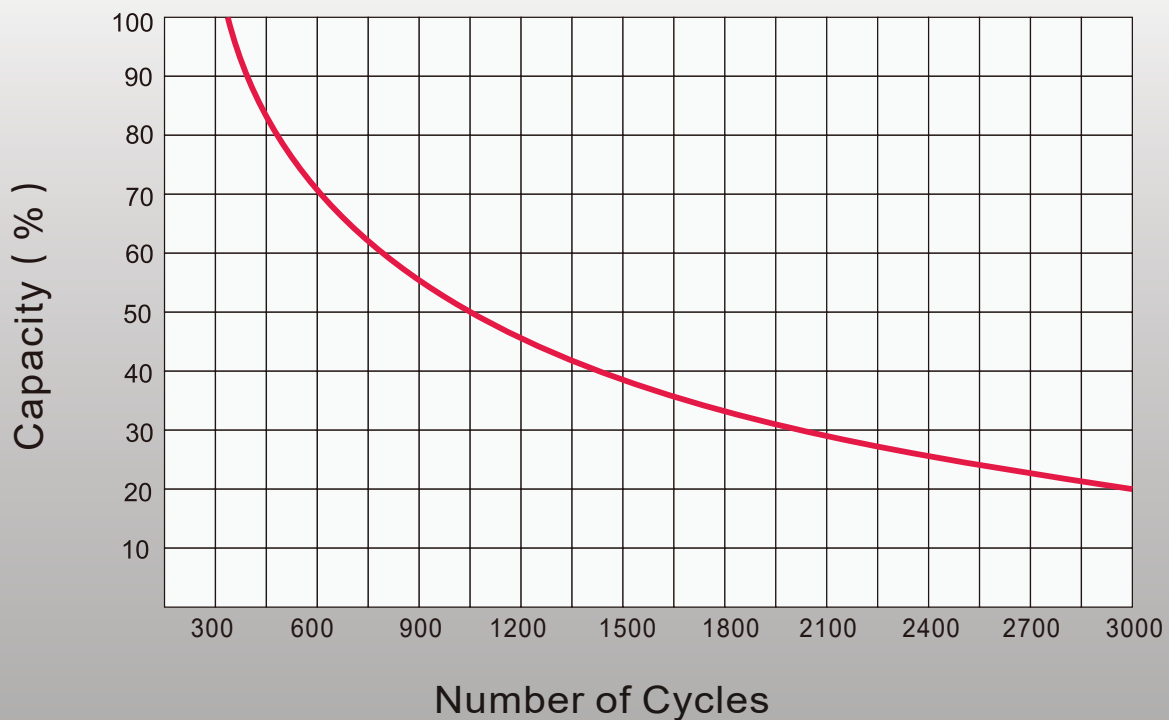
Charge Volume
Charging Current
Charging Voltage

0.1CA-2.25V/cell Temperature: 25°C

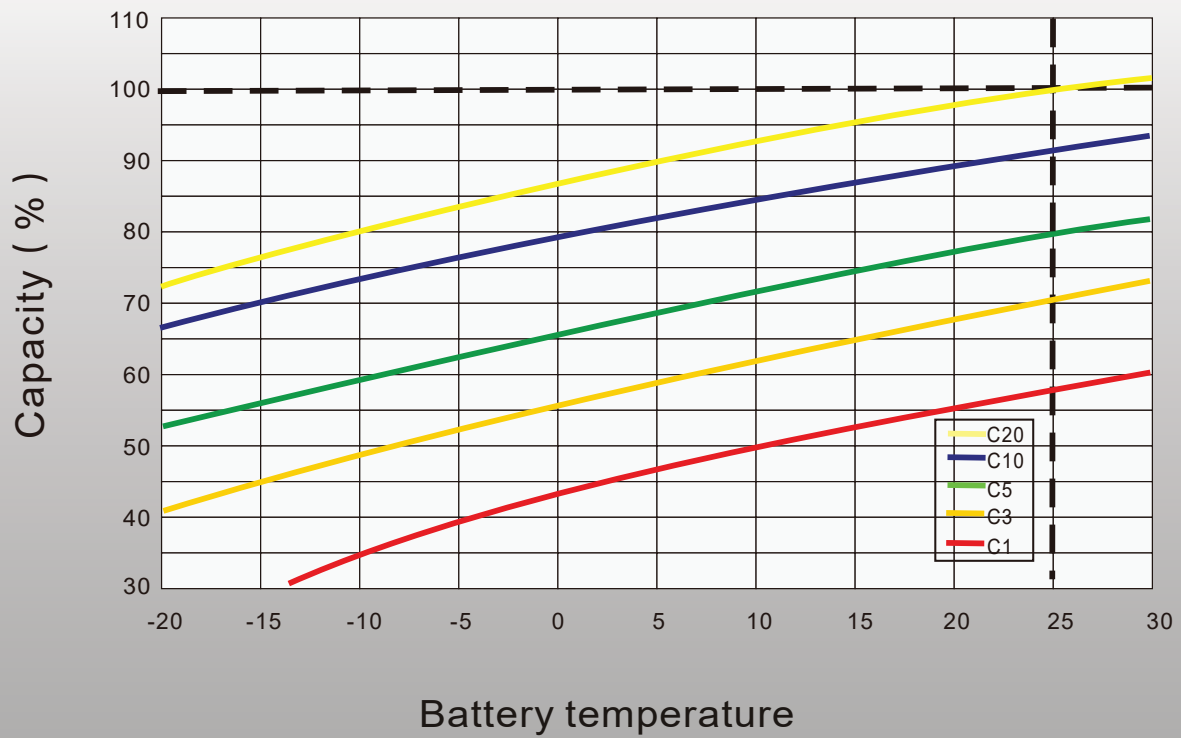


Cycle Life in Relation to Depth of Discharge

Acc.to IEC 896-2 (25 °C / 77°F)



Temperature Effects in Relation to Battery Capacity





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