

# STARMAX

The world's leading battery brand



## TELECOMMUNICATION **BATTERIES**

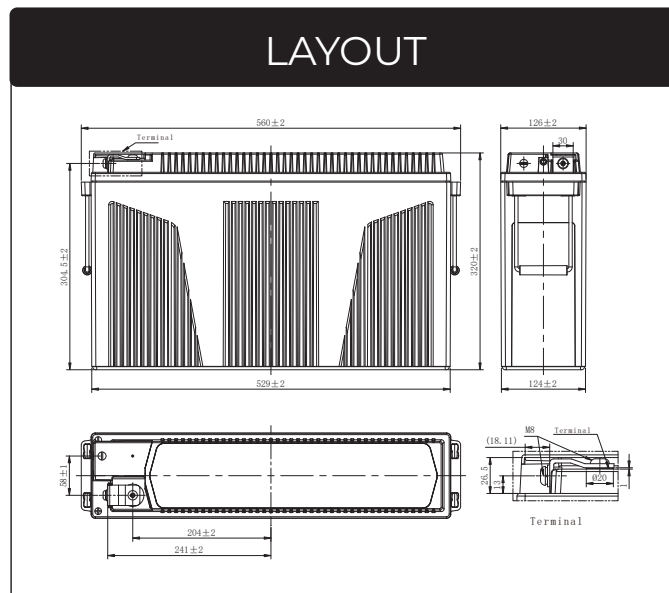
STF12-200 (12V 200Ah)



[www.starmaxbatteries.com](http://www.starmaxbatteries.com)

# FT SERIES - FRONT TERMINAL

## STF12-200



## General Features

- ✓ 12 years design life(25°C)
- ✓ Specifically ideal for 19 inches or 23 inches power cabinets
- ✓ Front terminals make the installation, maintenance and supervision easy
- ✓ Shield designs protect terminals from short circuit and show good appearance
- ✓ Unique vent valve design: reduce water losing and prevent air/spark going inside

## Applications

- ✓ UPS
- ✓ For standard power cabinet
- ✓ Network connection equipment of communication system
- ✓ Power system of special network of local area network
- ✓ Power station systems

## Standards

- ✓ Compliance with IEC 60896 standards, EU Battery Directive
- ✓ UL, CE Certified
- ✓ Manufactured in Starmax® IATF16949, ISO 45001,ISO 9001 and ISO 14001 certified production facilities



# SPECIFICATIONS

Rated Voltage	12V	
Nominal Capacity	(C <sub>10</sub> ,1.80V/cell)	200.0Ah
Dimensions	Length	560±2mm (22.05 inches)
	Width	126±2mm (4.96 inches)
	Container height	320±2mm (12.60 inches)
	Total height	320±2mm (12.60 inches)
Approx. weight	61.0 Kg (134.5 lbs)	
Terminal	M8	
Container material	ABS	
Rated capacity (25°C)	210.0 Ah	(20hr,10.5A,1.80V/cell)
	200.0 Ah	(10hr,20.0A,1.80V/cell)
	195.2 Ah	(8hr,24.4A,1.75V/cell)
	175.0 Ah	(5hr,35.0A,1.75V/cell)
	123.9 Ah	(1hr,123.9A,1.60V/cell)
Max. discharge current	2000A (5s)	
Internal resistance (25°C)	Approx 4.0mΩ	
Operating temp. range	Discharge	-15~50°C ( 5~122°F)
	Charge	-20~40°C (-4~104°F)
	Storage	-15~40°C (5~104°F)
Nominal operating temp. range	25±3°C (77±5°F)	
Standby Use	Initial Charging Current less than 60.0A. Voltage 14.1V~14.4V at 25°C (77°F)Temp. Coefficient -30mV/°C	
Equalization Use	Initial Charging Current less than 60.0A.Voltage 13.5V~13.8V 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	STF 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.	

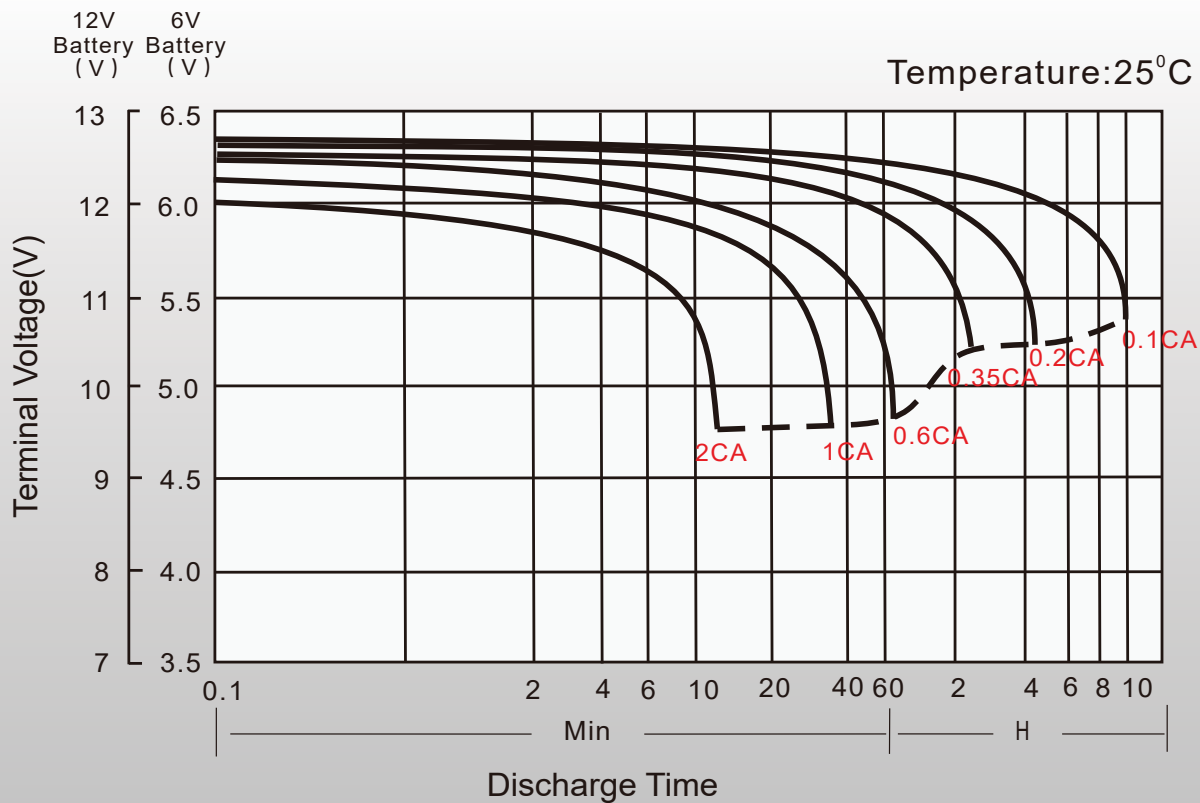
### Constant Current Discharge (Amperes) at 25°C (77°F)

F.V/Time	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	287.5	256.2	226.7	185.7	128.5	97.3	63.3	47.7	38.0	31.8	28.7	22.4	18.7	9.80
1.80V/cell	334.0	298.0	252.9	199.6	140.1	107.6	68.8	51.6	41.0	34.2	29.5	23.7	20.0	10.5
1.75V/cell	368.6	315.2	269.6	207.6	145.3	111.3	70.9	53.0	42.0	35.0	29.9	24.4	20.3	10.7
1.70V/cell	392.5	333.1	280.4	214.7	150.7	115.7	73.2	54.6	43.1	35.8	30.3	24.9	20.6	10.8
1.67V/cell	410.4	343.6	286.3	219.1	153.8	118.1	74.4	55.4	43.7	36.2	30.6	25.1	20.8	10.9
1.60V/cell	428.3	368.0	294.7	223.5	159.2	123.9	77.5	57.4	45.1	37.4	31.2	25.7	21.3	11.2

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

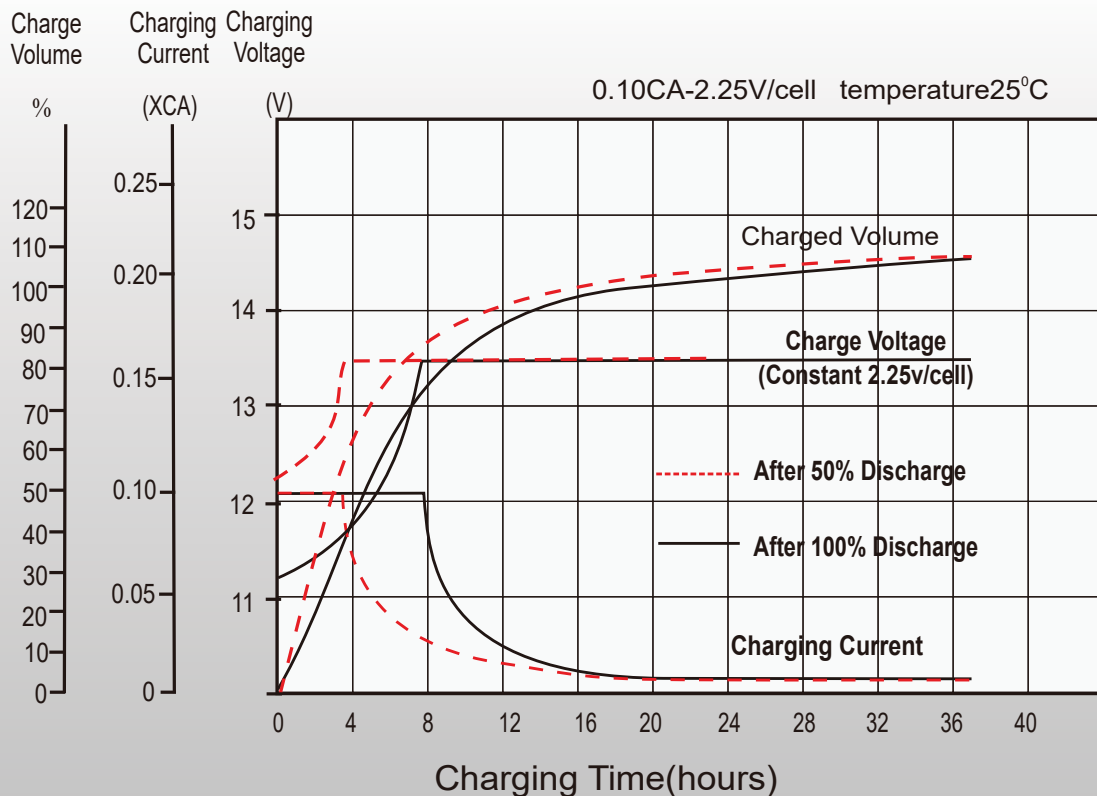
F.V/Time	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	536.8	491.0	431.8	357.7	248.3	188.6	123.3	93.3	74.5	62.4	57.1	44.2	37.0	19.8
1.80V/cell	616.5	565.0	474.8	378.7	268.0	207.3	133.5	100.6	80.0	67.0	58.3	46.6	40.0	21.0
1.75V/cell	669.5	591.5	501.3	390.5	275.8	212.9	136.8	102.8	81.7	68.3	59.0	48.0	40.0	21.2
1.70V/cell	696.9	618.1	517.4	401.8	284.3	219.8	140.5	105.3	83.5	69.7	59.7	48.7	40.5	21.4
1.67V/cell	725.8	639.2	526.3	409.1	289.1	223.3	142.3	106.6	84.5	70.4	60.1	49.2	40.8	21.5
1.60V/cell	736.6	666.4	534.0	411.9	295.8	231.9	147.2	109.9	86.8	72.2	60.4	50.2	41.6	21.9

## Discharge Characteristics

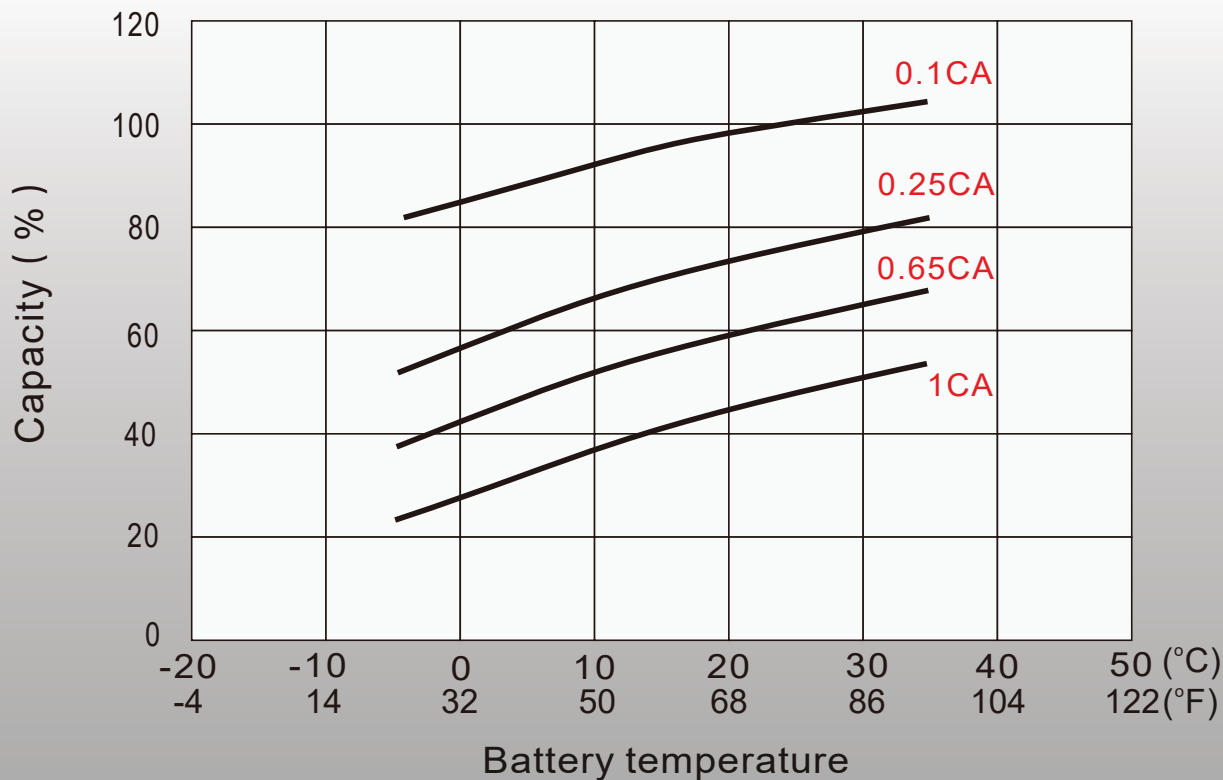




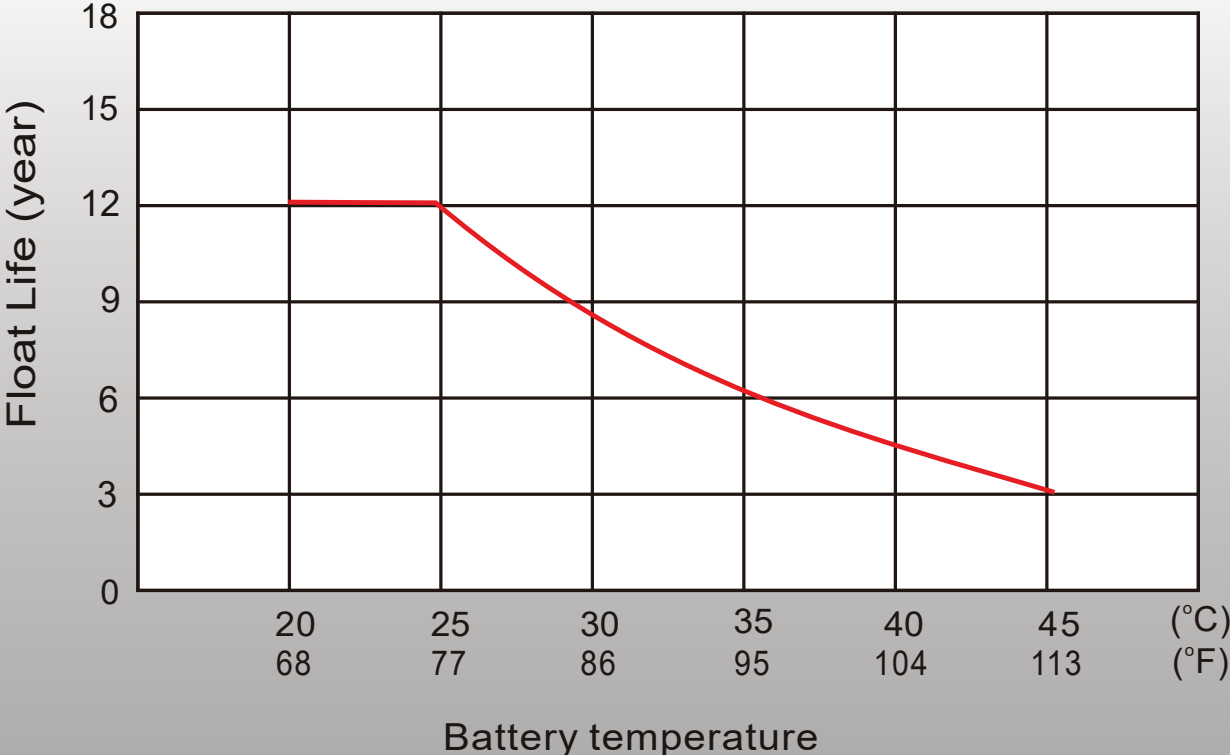
# Float Charging Characteristics



# Temperature Effects in Relation to Battery Capacity



# Effect of Temperature on Long Term Float Life





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