

# UPS-FTA Series

## UPS12-700FTA 12V200Ah

Sacred Sun front terminal batteries have been designed specifically for applications which demand the highest levels of security and reliability. The monoblocs have excellent high power discharge, compact design and standard footprint for 23' cabinets. Thick Pb-Ca-Sn alloy grids are designed to resist corrosion and prolong service life.



### Benefits

- Long life according to EUROBAT Classification
- High discharge performance
- High gas recombination efficiency
- Maximum charge efficiency
- Low self-discharge rate
- Easy installation and handling
- Centralized venting system

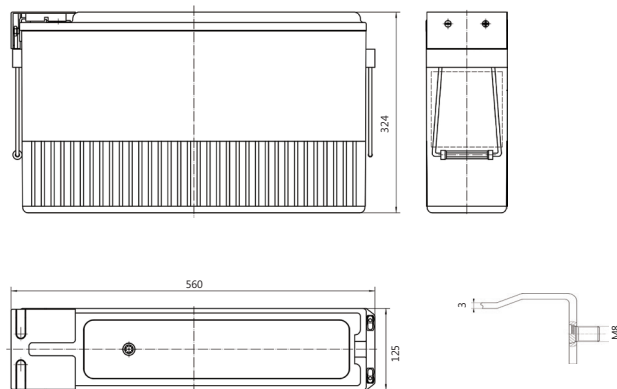
### Applications

- Data center
- Power system
- UPS
- Emergency power
- Telecommunications

### Standards

- IEC 60896-21/22
- BS 6290-4
- EUROBAT guide

### Drawing



FT-59

### Specifications

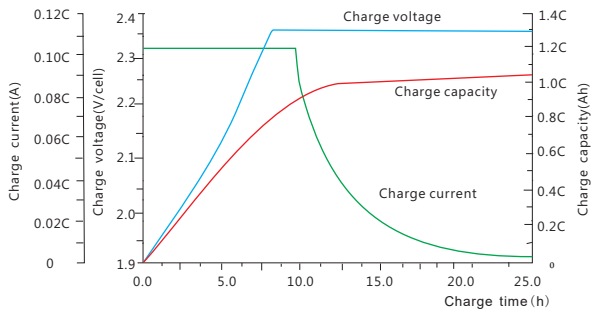
Battery Model	UPS12-700FTA			
Design Life (years, 25°C)	12			
Capacity (Ah, 25°C)	10min (1.60V)	15min (1.67V)	1HR (133.4A, 1.75V)	10HR(20.0A, 1.80V)
	913	700	133.4	200
Dimensions (mm)	Length	Width	Height	Total Height
	560	125	324	324
Approx. Weight (kg)	61.5			
Reference Internal Resistance (mΩ)	2.5 ( fully charged @ 25°C)			
Maximum Discharge Current (A/3 Sec.)	1520			
Self-Discharge (25°C)	≤ 2% per month			
Charge Voltage (V/cell, 25°C)	Cycle use		Float use	
	14.1(-3.5mV/°C/cell), max charge current: 40A		13.5 (-3.5mV/°C/cell)	
Short Circuit Current (A)	4150			

## Discharge Data

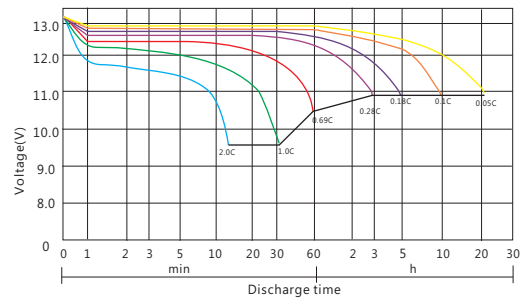
Constant Power Discharge Data (25°C, W/cell)														
End Voltage (V/cell)	min						h							
	5	10	15	20	30	45	1	1.5	2	3	4	5	6	10
1.60	1160.0	913.0	727.0	615.0	464.0	347.0	281.0	202.5	165.0	113.0	86.0	75.5	64.9	42.9
1.65	1134.0	878.6	703.0	590.1	457.0	339.7	275.3	199.8	160.0	108.0	84.0	74.2	64.0	42.1
1.67	1117.9	866.0	700.0	583.0	453.0	338.1	274.7	199.3	156.0	106.0	82.3	72.9	63.0	41.6
1.70	1084.0	840.0	669.0	571.0	449.0	336.0	273.5	198.6	152.0	104.0	81.4	71.8	62.2	41.1
1.75	1020.5	780.0	630.0	544.0	437.0	330.8	271.5	196.5	150.0	102.0	80.5	71.1	61.8	40.8
1.80	975.0	732.0	606.0	497.0	405.0	307.0	257.0	193.0	148.0	101.0	78.9	70.3	61.0	40.2

Constant Current Discharge Data (25°C, A)														
End Voltage (V/cell)	min						h							
	5	10	15	20	30	45	1	1.5	2	3	4	5	6	10
1.60	577.0	448.0	356.0	303.9	228.0	171.6	138.0	99.8	81.5	55.5	42.9	36.7	32.0	20.9
1.65	560.0	433.0	347.0	290.0	225.0	167.0	136.0	98.2	78.2	53.6	42.0	36.4	31.6	20.7
1.67	550.0	427.0	344.0	286.0	223.0	166.0	135.2	97.5	76.4	52.5	41.1	36.0	31.3	20.5
1.70	535.0	415.0	329.0	280.0	221.0	165.0	134.2	96.9	74.5	51.3	40.5	34.7	30.9	20.4
1.75	502.0	383.0	310.0	268.0	216.0	162.0	133.4	96.2	73.8	50.5	40.0	34.4	30.5	20.2
1.80	480.0	360.0	297.0	245.0	200.0	150.0	125.9	95.1	72.2	50.0	39.3	34.0	30.4	20.0

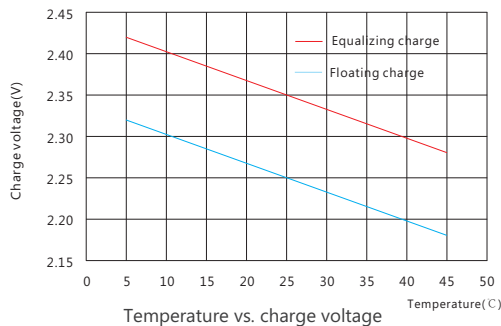
## Performance Curve



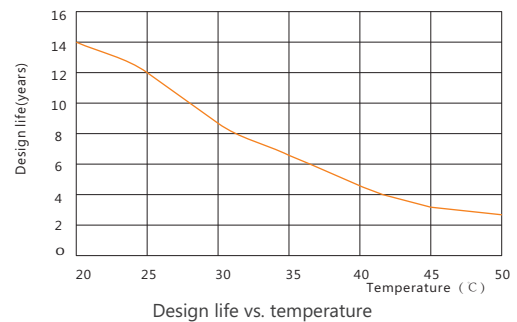
Charge performance



Discharge voltage vs. discharge time



Temperature vs. charge voltage



Design life vs. temperature

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