

FAJ Series

FAJ12-100B 12V100Ah

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 rate performance, compact design and standard footprint for 19" and 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
- GEL electrolyte to have long cycle life
- Easy installation and handling
- Centralized venting system

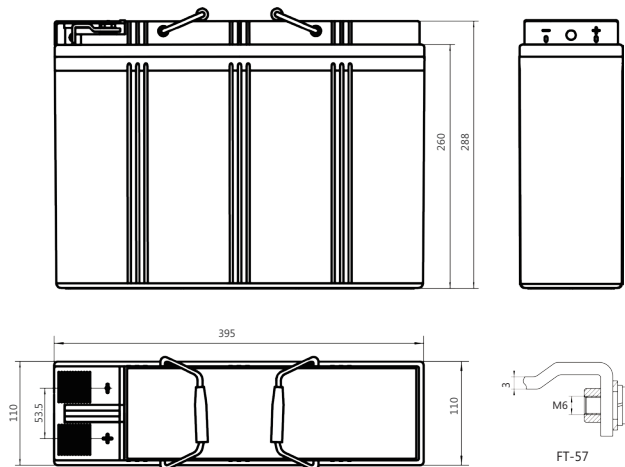
Applications

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

Standards

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

Drawing



Specifications

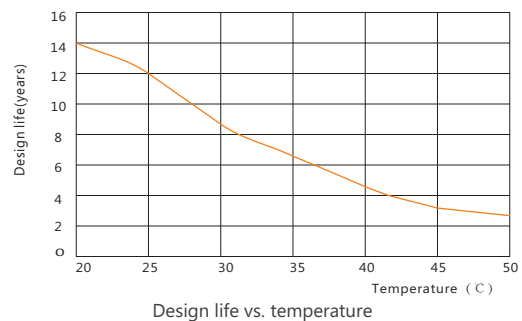
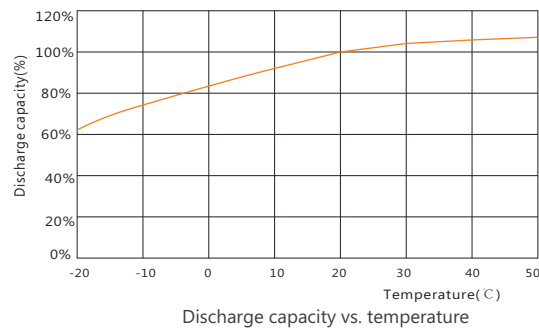
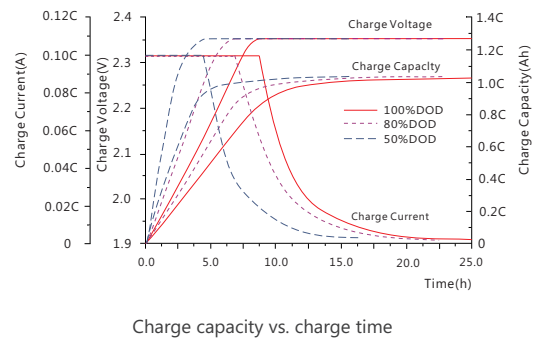
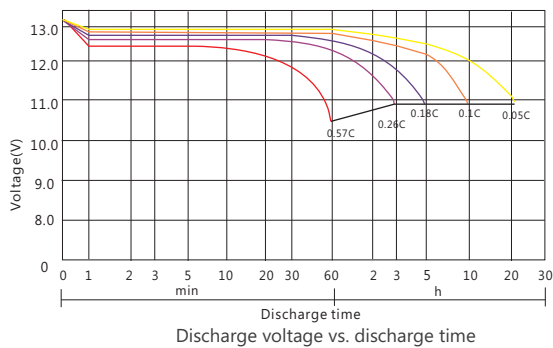
Battery Model	FAJ12-100B			
Design Life (years, 25°C)	12			
Capacity (Ah, 25°C)	10HR (10.0A, 1.80V)	5HR (17.8A, 1.80V)	3HR (26.2A, 1.80V)	1HR(57.0A, 1.75V)
	100	89.0	78.6	57.0
Dimensions (mm)	Length	Width	Height	Total Height
	395	110	288	288
Approx. Weight (kg)	31.4			
Reference Internal Resistance (mΩ)	4.6 (fully charged @ 25°C)			
Maximum Discharge Current (A/5 Sec.)	400			
Self-Discharge (25°C)	≤ 1.5% per month			
Charge Voltage (V/cell, 25°C)	Cycle use		Float use	
	2.35 (-3.5mV/°C/cell), max charge current: 20A		2.25 (-3.5mV/°C/cell)	
Short Circuit Current (A)	2760			

Discharge Data

Constant Current Discharge Data (25°C, A)											
End Voltage (V/cell)	min	h									
	30	1	2	3	4	5	6	8	10	12	20
1.70	100	58.8	37.6	27.0	22.4	18.3	15.7	12.2	10.2	8.62	5.50
1.75	94.6	57.0	37.0	26.7	22.0	18.1	15.5	12.0	10.1	8.56	5.46
1.80	90.4	55.0	36.0	26.2	21.8	17.8	15.4	11.9	10.0	8.50	5.39
1.83	87.4	52.5	34.9	25.4	21.1	17.3	14.9	11.5	9.70	8.24	5.23
1.85	84.2	50.3	33.8	24.7	20.4	16.7	14.4	11.1	9.40	7.97	5.07

Constant Power Discharge Data (25°C, W/cell)											
End Voltage (V/cell)	min	h									
	30	1	2	3	4	5	6	8	10	12	20
1.70	184	128	73.9	54.0	41.8	34.7	29.7	22.5	19.0	16.1	10.2
1.75	176	124	73.5	53.5	41.5	34.4	29.5	22.5	18.6	15.7	10.1
1.80	171	120	72.6	53.1	41.2	34.1	29.3	22.4	18.0	15.3	10.0
1.83	167	113	69.3	51.5	39.9	33.0	28.4	21.7	17.4	14.8	9.81
1.85	164	107	66.1	49.9	38.7	32.0	27.5	21.0	16.9	14.3	9.51

Performance Curve



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