



STAN FLAT

Power Mast, Chale Zabardast



The heavy-duty inverter battery

INDUSTRIAL

Presenting **SF STANFLAT** 1800, with extra heavy duty thicker plates inside for withstanding frequent and long power cuts. The batteries have got lug type terminals and electrolyte level indicators, making STANFLAT truly user-friendly inverter batteries. They have heat sealed tamper proof lids, with rope type lifting arrangements. These batteries incorporate tower type design in strong and rugged polypropylene containers.

ADVANTAGES

- Extra heavy duty thicker plates as per our exclusive design ensuring durability, resistance to corrosion and inbuilt margins for high ambient temperature
- Built with PE pocket type separator bonded with glass mat for extra support to active material, making the battery more suitable for deep cycle application
- There is high acid volume per ampere hour ensuring low maintenance characteristics
- Suitable for long and frequent powercuts with quick recharge adaptability
- Substantial savings in floor area
- Resistant to abuse

TECHNICAL SPECIFICATION

Model	Capacity at 27°C when discharged at C20 upto 1.75 vpc (1.280 sp. gr)	Dimension (+/-3mm)			Weight (Kg +/-5%)		Volume of Electrolyte (1.220 Sp. Gr) Liters/Cell	Initial charge Minimum AH input (AH)	Initial Charge at Constant Current (A)		Constant Potential Limiting Current (Amps)	Trickle Charge (Current in mA)	
		Length	Width	Height*	Dry	Filled			Start (upto 2.36 vpc)	Finish (upto 2.75 vpc)		Min.	Max.
STANFLAT 1800	180Ah	500	187	430	36.50	62.50	3.55	525	18.0	9.0	30	150	600

*The height mentioned is upto terminal top.

HIGHER DISCHARGE RATES (OPTIONAL)

Hours		10	5	3	1
Capacity Ah	STANFLAT 1800	150	132	117	87

INITIAL CHARGING INSTRUCTIONS

1. Filling in Specific Gravity	1.220 +/- 0.005 at 27°C	5. Conditions of fully charged	a) 3 consecutive hourly readings of specific gravity and voltage become constant b) Top of charge voltage will be around 16.2V – 16.5V c) All cells should gas freely d) Minimum Ah has been given
2. Rest Period	4 - 6 hrs.		
3. Minimum Ah input	525Ah		
4. In order to reduce the charging time, the following routine may be adopted. For SF1800, the initial charging current may be 18.0A upto 2.36 vpc followed by 9.0A upto 2.75 vpc. However in both cases, minimum Ah input to be given. Under no circumstances, battery temperature should exceed 50°C. In case the temperature exceeds 50°C, adequate rest to be given till the electrolyte temperature comes to ambient temperature and charging to be continued.			
6. Specific Gravity at fully charged condition	1.250 +/- 0.005 at 27°C		

NORMAL RECHARGING INSTRUCTIONS

Recharging through Inverter at constant potential mode of 14.4V with limited current as specified. After battery potential reaches 14.4V, the battery should continue in trickle charge mode at constant potential of 13.8V.

BATTERY SELECTION CHART

Inverter Rating (VA)	Inverter DC input voltage (V)	Back-Up Time					
		6 Hrs.	5 Hrs.	4 Hrs.	3 Hrs.	2 Hrs.	1 Hrs.
500	12	2P SF1800	2P SF1800	SF1800	SF1800	SF1800	SF1800
	24	2S SF1800	2S SF1800	2S SF1800	2S SF1800	2S SF1800	2S SF1800
700	12	2P SF1800	2P SF1800	2P SF1800	SF1800	SF1800	SF1800
	24	2S SF1800	2S SF1800	2S SF1800	2S SF1800	2S SF1800	2S SF1800
1000	12	3P SF1800	3P SF1800	2P SF1800	2P SF1800	2P SF1800	SF1800
	24	2S X 2P SF1800	2S X 2P SF1800	2S SF1800	2S SF1800	2S SF1800	2S SF1800
1300	12	4P SF1800	3P SF1800	3P SF1800	2P SF1800	2P SF1800	SF1800
	24	2S X 2P SF1800	2S X 2P SF1800	2S X 2P SF1800	2S SF1800	2S SF1800	2S SF1800
2000	12	—	—	4P SF1800	3P SF1800	3P SF1800	2P SF1800
	24	2S X 3P SF1800	2S X 3P SF1800	2S X 2P SF1800	2S X 2P SF1800	2S X 2P SF1800	2S SF1800

Note: P = Parallel, S = Series. 2S X 3P SF1800 = A string containing 2 nos. SF1800 in series and 3 nos. such strings in parallel. SF1800 stands for STANFLAT 1800

Statutory Notice:

All batteries contain lead, which is harmful for humans and environment. As per statutory requirements, the used battery must be returned to the authorized dealer, manufacturer or at the designated collection centres.



STANFLAT is a product of ISO 9001 and ISO 14001 certified factories

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*Applied for

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