



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

Head Office

Kolkata Standard Furukawa Division (Industrial),
59F Chowringhee Road, Kolkata - 700 020,
Phone (033) 2283 2120/33/ 36/50/51/71/
2238/39, Fax (033) 2283 2632/37

Corporate Marketing Office

Kolkata 6A Hatibagan Road, Entally, Kolkata - 700 014,
Phone (033) 2286 6158/6159,
Fax (033) 2286 6186

Regional Offices

New Delhi 3E/1 Link Road, Jhandewalan Extension,
New Delhi - 110 055, Phone (011) 2362 7095/
96/98, 4154 0626, Fax (011) 2355 5703

Chennai Industrial Marketing Division, Economist House,
2nd Floor, Western Wing, S-15, Thiru Vi-Ka
Industrial Estate, Guindy, Chennai - 600 032,
Phone (044) 2250 0726, 2250 1326, 2250 1216

Mumbai 'RAHEJAS', 5th Floor, 8C Main Avenue, V P Road,
Santa Cruz (West), Mumbai - 400 054,
Phone (022) 2646 5283/84, Fax (022) 2646 5042

Kolkata 6A Hatibagan Road, Entally, Kolkata - 700 014,
Phone (033) 2284 3137, 2286 1860/6193,
Fax (033) 2289 7455

Branch Offices

Bhubaneswar Phone (0674) 243 1385/1847,
Fax (0674) 243 1385

Guwahati Phone (0361) 234 2500/1119

Patna Phone (0657) 242 6847/8349

Jamshedpur Phone (0612) 222 6632, 221 1040, 257 3039,
Fax (0612) 223 1569

Siliguri Phone (0353) 254 0321

Chandigarh Phone (0172) 273 5440/5441, 500 0014,
Fax (0172) 265 4395

Ghaziabad Phone (0120) 411 7952

Jaipur Phone (0141) 404 3303, Fax (0141) 229 2829

Jalandhar Phone (0181) 553 4983, 223 7870, 223 7874,
Fax (0181) 245 9571

Lucknow Phone (0522) 404 1896/1899,
Fax (0522) 404 1807

Varanasi Phone (0542) 250 1680, Fax (0542) 250 1296 PR
Bangalore Phone (080) 5128 3492-5/2357 8672,
Fax (080) 559 9624

Coimbatore Phone (0422) 222 1846, Fax (0422) 222 1737

Hyderabad Phone (040) 5516 3958 (D), 5569 6633

Kochi Phone (0484) 240 9128 (D), Fax (0484) 253 7869

Ahmedabad Phone (079) 2685 6697 (D)/8/9/661,
Fax (079) 2685 6698

Indore Phone (0731) 255 7075(D),
Fax (0731) 255 9522

Mumbai Phone (022) 2646 5041, Fax (022) 2646 5042

Nagpur Phone (0712) 259 4722, 561 5882/83,
Fax (0712) 259 1479

Pune Phone (020) 3230 4043 (D)/41/42,
Fax (020) 2422 3843

Vadodra Telefax (0265) 235 4240

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*Applied for

Reach us at sfcare@gmail.com