SF INDUSTRIAL

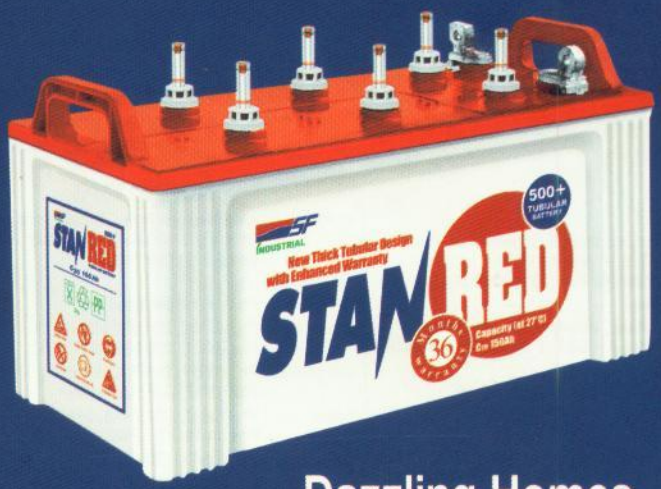
500+

STAN RED

FROST & SULLIVAN

2010 BEST PRACTICES AWARD

Market Leadership - Industrial Batteries
India Back-up Power Industry
Excellence Awards



Dazzling Homes.
Sparkling Life.

INDUSTRIAL

Presenting **STANRED 500+**, the next generation tubular battery designed specially to withstand long and frequent powercuts and requiring very low maintenance.

FEATURES

New

- More than 20% extra electrolyte which means lesser topping-up frequency and better thermal management
- Tubular Technology
- Minimum maintenance
- Electrolyte level indicator
- Suited for frequent and long powercuts
- Deep cycle design (600 – 700 cycles at 80% D.O.D.)
- Abuse resistant
- Faster recharge
- Operating sp.gr. 1.250 ± 0.005 at 27°C

TECHNICAL SPECIFICATION

Model	Capacity*	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.
STANRED 500+	150Ah	506	220	273	29.54	47.85	2.50	565	15.0	7.5	32.00	125	500

#The height mentioned is upto terminal top. *At 27°C when discharged at C20 upto 1.75 vpc (1.280 sp. gr)

HIGHER DISCHARGE RATES (OPTIONAL)

Hours		10
Capacity in Ah	STANRED 500+	125

INITIAL CHARGING INSTRUCTIONS

1. Filling in Specific Gravity — 1.220 +/- 0.005 at 27°C
2. Rest Period — 10 hrs.
3. Minimum Ah input — 565Ah for STANRED 500+
4. In order to reduce the charging time, the following routine may be adopted. For SR500+, the initial charging current may be 15.0A upto 2.36 vpc followed by 7.5A 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 temp. comes to ambient temp. and charging to be continued.
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
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 float charge mode at constant potential of 13.5V.

APPLICATION CHART

Electrical Load	System Voltage	Reco. Inverter Rating	Recommended Battery for Different Back-up time				
			5 Hrs.	4 Hrs.	3 Hrs.	2 Hrs.	1 Hr.
2 Fans + 2 Tube Lights	12	600 VA	2P SR500+	SR500+	SR500+	SR500+	SR500+
4 Fans + 4 Tube Lights	12	600 VA	3P SR500+	2P SR500+	2P SR500+	SR500+	SR500+
5 Fans + 4 Tube Lights + 1 TV	12	800 VA	4P SR500+	3P SR500+	3P SR500+	2P SR500+	2P SR500+
9 Fans + 8 Tube Lights + 1 TV	24	1400 VA	2S X 3P SR500+	2S X 3P SR500+	2S X 2P SR500+	2S X 2P SR500+	2S SR500+
9 Fans + 10 Tube Lights + 1 TV	24	1500 VA	2S X 3P SR500+	2S X 3P SR500+	2S X 3P SR500+	2S X 2P SR500+	2S SR500+

NOTE: If the limit current of one battery is 'A' amp, for 'N' no. batteries in parallel, the limit current for charging of inverter should be AxN amp. Otherwise there will be problem during charging in parallel connection. This point should be taken in consideration before putting batteries in parallel combination. As per principal and technology of lead acid battery the back up duration mentioned will gradually decrease with every year of usage. The rate of decrease depends on various factors, like frequency of charge / discharge, depth of discharge etc.

S= Series connection; P= Parallel connection. 2S X 3P = A string containing 2 nos. batteries in series and 3 nos. such strings in parallel.

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.

SF INDUSTRIAL

STANRED 500+ is a product of ISO 9001 and ISO 14001 certified factories

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*Applied for

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