



Ghar Ki Rani,
Ek Lambi Kahani



INDUSTRIAL

Available Range: Stanqueen 300 • Stanqueen 350 • Stanqueen 450

STANQUEEN 300, STANQUEEN 350 and STANQUEEN 450 are Stan Queen range of Flat Plate inverter batteries ideally suited for your specific requirements. The thick plates ensure a long life and it's through partition, inter cell connections ensure an even better voltage profile on discharge. It results into a steady discharge during power cuts of long duration and also enhanced service life. Moreover, this flat plate battery with electrolyte level indicators make STANQUEEN a truly user friendly inverter battery.

ADVANTAGES

- Better thermal management
- Customised exclusively for Inverters
- Expected life – 2 years plus – under arduous conditions
- Easy maintenance
- Special polythelene separator

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.
STANQUEEN 300	90 Ah	410	176	281	21.30	33.20	1.63	265	9.00	4.50	19.00	75	300
STANQUEEN 350	100 Ah	410	176	281	22.00	33.00	1.50	300	10.20	5.10	21.50	85	340
STANQUEEN 450	135 Ah	506	220	257	28.00	42.60	2.00	400	14.00	7.00	28.50	114	456

*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	5	3	1
Capacity Ah	STANQUEEN 300	75	66	58	43
	STANQUEEN 350	85	75	65	48
	STANQUEEN 450	114	100	89	66

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	10 hrs.		
3. Minimum Ah input	265 Ah for STANQUEEN 300, 300Ah for STANQUEEN 350 and 400Ah for STANQUEEN 450		
4. In order to reduce the charging time, the following routine may be adopted. For STANQUEEN 300, the initial charging current may be 9.0A upto 2.36vpc followed by 4.5A upto 2.75vpc, for STANQUEEN 350 10.2A upto 2.36vpc followed by 5.1A upto 2.75vpc and for STANQUEEN 450, the initial charging current may be 14.0A upto 2.36vpc followed by 7.0A upto 2.75vpc. However, in both cases, minimum Ah input to be given. Under no circumstances, battery temperature should exceed 50°C. In case the	6. Specific Gravity at fully charged condition		

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.

BATTERY SELECTION CHART

Inverter Rating VA	DC input voltage	Back-Up Duration					
		6 Hrs.	5 Hrs.	4 Hrs.	3 Hrs.	2 Hrs.	1 Hr.
300	12	2P SQ350	SQ450	SQ450	SQ350	SQ350	SQ300
600	12	2P SQ450	2P SQ450	2P SQ450	2P SQ350	2P SQ300	SQ350
	24	2S SQ450	2S SQ450	2S SQ450	2S SQ350	2S SQ300	2S SQ300
800	12	3P SQ450	3P SQ450	2P SQ450	2P SQ450	2P SQ350	SQ450
	24	2S X 2P SQ450	2S X 2P SQ300	2S X 2P SQ300	2S SQ450	2S SQ300	2S SQ300
1000	12	4P SQ450	4P SQ450	3P SQ450	3P SQ450	2P SQ450	SQ450
	24	2S X 2P SQ450	2S X 2P SQ450	2S X 2P SQ450	2S X 2P SQ450	2S SQ450	2S SQ350
1400	24	2S X 3P SQ450	2S X 3P SQ450	2S X 3P SQ350	2S X 2P SQ450	2S X 2P SQ300	2S X 1P SQ300
	48	4S X 2P SQ350	4S X 2P SQ350	4S SQ450	4S SQ450	4S SQ350	4S SQ300

S= Series connection; P= Parallel connection. 4S X 2P SQ450 => A string containing 4 nos. SQ450 batteries in series and 2 nos. such strings in parallel. SQ 450 stands for STANQUEEN450.

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.



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

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PHX/SQ300, 350 & 450/8K/12-2009

*Applied for

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