

EXIDE
INDUSTRIAL

 **EXIDE**


The ^{Queen} Queen of
Inverter Batteries



Mera Inverter Maange Only **INVA**

INVAQUEEN 300 and **INVAQUEEN 450** are yet new innovations adding to the Invaqueen series of batteries to suit your specific requirements. You can proudly display them in your living room. The thick plates ensure a long life and it's through partition inter-cell connections ensure an even better voltage profile on discharge. The result : a steady discharge during power cuts of long duration and also enhanced service life. Moreover, it has got flat terminals and electrolyte level indicators, making INVAQUEEN 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 glass mat bonded polythelene separator reduces the probability of internal short circuit, thus enhancing the service life

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.
INVAQUEEN 300	90Ah	410	176	249	20.30	29.80	1.30	265	9.00	4.50	15	75	300
INVAQUEEN 450	135Ah	506	220	257	28.00	42.60	2.00	400	14.00	7.00	23	114	465

*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	INVAQUEEN 300	75	66	58	43
	INVAQUEEN 450	114	100	89	66

INITIAL CHARGING INSTRUCTIONS

1. Filling in Specific Gravity	1.220 +/- 0.005 at 27°C	temperature exceeds 50°C, adequate rest to be given till the electrolyte temp. comes to ambient temp. and charging to be continued. 3 consecutive hourly readings of specific gravity and voltage become constant Top of charge voltage will be around 16.2V – 16.5V All cells should gas freely Minimum Ah has been given
2. Rest Period	4 - 6 hrs.	
3. Minimum Ah input	265 Ah for INVAQUEEN 300 and 400Ah for INVAQUEEN 450	
4. In order to reduce the charging time, the following routine may be adopted. For INVAQUEEN 300, the initial charging current may be 9.0Ah upto 2.36vpc followed by 4.5A upto 2.75vpc. For INVAQUEEN 450, the initial charging current may be 14.0A upto 2.36vpc followed by 7.0Ah 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		
5. Conditions of fully charged		
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 13.8V.

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 IQ300	IQ450	IQ450	IQ300	IQ300	IQ300	
500	12	2P IQ450	2P IQ450	2P IQ450	2P IQ300	2P IQ300	IQ300	
	24	2S IQ450	2S IQ450	2S IQ450	2S IQ300	2S IQ300	2S IQ300	
700	12	3P IQ450	3P IQ450	2P IQ450	2P IQ450	2P IQ300	IQ450	
	24	2S X 2P IQ450	2S X 2P IQ300	2S X 2P IQ300	2S IQ450	2S IQ300	2S IQ300	
1000	12	4P IQ450	4P IQ450	3P IQ450	3P IQ450	2P IQ450	IQ450	
	24	2S X 2P IQ450	2S X 2P IQ450	2S X 2P IQ450	2S X 2P IQ450	2S IQ450	2S IQ300	
1300	24	2S X 3P IQ450	2S X 3P IQ450	2S X 3P IQ300	2S X 2P IQ450	2S X 2P IQ300	2S X 1P IQ300	
	48	4S X 2P IQ300	4S X 2P IQ300	4S IQ450	4S IQ450	4S IQ300	4S IQ300	
2000	48	4S X 2P IQ450	4S X 2P IQ450	4S X 2P IQ450	4S X 2P IQ300	4S IQ450	4S IQ450	

S= Series connection; P= Parallel connection. 4S X 2P IQ450 => A string containing 4 nos. IQ450 batteries in series and 2 nos. such strings in parallel. IQ 450 stands for INVAQUEEN450.

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.

Contact our Exide Powercentre Showrooms for Sales & Services



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

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PHX/IQ300 & 450/10K/08-2006

*Applied for

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