

EXIDE
INDUSTRIAL

 **EXIDE**

INVA  **QUEEN** 500+

The Queen of
Inverter Batteries



अब 20% Zyada Electrolyte

Mera Inverter Maange Only **INVA**

INVAQUEEN 500+ has rugged internal elements required for withstanding frequent and long power cuts. It is housed in a light-weight, durable, beautiful polypropylene container making it the Queen of all Inverter batteries. You can proudly display it in your living room. The thick plates ensure a long life and its through partition inter-cell connections ensure an even better voltage profile on discharge. The result : a steady discharge during powercuts 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

● More than 20% extra electrolyte which means lesser topping-up frequency and an unhindered performance ● 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 500+	150Ah	506	220	273	32.75	51.10	2.50	440	15.00	7.50	25	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	INVAQUEEN500+	10	5	3	1
Capacity in Ah		125	110	97	72

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	440Ah		
4. In order to reduce the charging time, the following routine may be adopted. For INVAQUEEN 500+, the initial charging current may be 15.0A upto 2.36vpc followed by 7.5A 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 temperature exceeds 50°C, adequate rest to be given till the electrolyte temp. comes to ambient temp. 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 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 IQ500+	1Q500+	1Q500+	1Q500+	1Q500+	1Q500+
500	12	2P IQ500+	2P IQ500+	2P IQ500+	2P IQ500+	1Q500+	1Q500+
	24	2S IQ500+	2S IQ500+	2S IQ500+	2S IQ500+	2S IQ500+	2S IQ500+
700	12	3P IQ500+	3P IQ500+	2P IQ500+	2P IQ500+	2P IQ500+	1Q500+
	24	2S X 2P IQ500+	2S X 2P IQ500+	2S IQ500+	2S IQ500+	2S IQ500+	2S IQ500+
1000	12	4P IQ500+	4P IQ500+	3P IQ500+	2P IQ500+	2P IQ500+	1Q500+
	24	2S X 2P IQ500+	2S X 2P IQ500+	2S X 2P IQ500+	2S IQ500+	2S IQ500+	2S IQ500+
1300	24	2S X 3P IQ500+	2S X 2P IQ500+	2S X 2P IQ500+	2S X 2P IQ500+	2S X 2P IQ500+	2S IQ500+
	48	4S X 2P IQ500+	4S IQ500+	4S IQ500+	4S IQ500+	4S IQ500+	4S IQ500+
2000	48	4S X 2P IQ500+	4S X 2P IQ500+	4S X 2P IQ500+	4S X 2P IQ500+	4S X 2P IQ500+	4S IQ500+

S= Series connection; P= Parallel connection. 4S X 2P IQ500+ => A string containing 4 nos. IQ500+ batteries in series and 2 nos. such strings in parallel. IQ500+ stands for INVAQUEEN500+

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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*Applied for

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