



# CHADHA POWER



**TECHNICAL DATA SHEET  
FOR STAR SERIES OF UPS/INVERTERS:  
650VA 12V, 850VA 12V, 1050VA  
12V AND 1450VA 24V**



## MODELS

MODEL	RATING
STAR 12V 650VA PST UPS	650VA, 12V
STAR 12V 850VA PST UPS	850VA, 12V
STAR 12V 1050VA PST UPS	1050VA, 12V
STAR 24V 1450VA PST UPS	1450VA, 24V

## SALIENT FEATURES

S NO.	FEATURES	DETAILS
1	Output Wave Form	Sinusoidal Wave Form
2	Power Card Design	Microcontroller based, MOSFET Topology
3	Power Transformer Design	Aluminium Winding
4	Charging Technology	ASIC (Automatic Sense Intelligent Control)
5	Cooling	Air Cooled by in-built ventilation cooling fan
6	Mains Low Voltage Charging	Available (8 ~ 10 Amp Current at 120V Mains Input if Battery Voltage Below 13V)
7	Wide Voltage Range	Wide Voltage Range From 90V - 300V For Charging
8	Display Type	LED Indicator
9	Protections	<ul style="list-style-type: none"> <li>• Output Short Circuit Protection with Audio Alarm</li> <li>• Battery Reverse Protection Through DC Fuse</li> <li>• Short Circuit Protection at Mains Mode through AC Fuse with Audio Alarm</li> <li>• Battery Under Voltage and Over Voltage Charge Protection</li> <li>• Intelligent Overload Sensing Circuitry with auto retries facility with Audio Alarm</li> <li>• Phase Reverse Protection as Short Circuit with Audio Alarm</li> <li>• Over Temperature Protection with Audio Alarm</li> </ul>

## TECHNICAL SPECIFICATIONS

S.NO.	PARAMETERS	650VA	850VA	1050VA	1450VA
1	No Load Output Voltage	220V $\pm$ 7V			
2	Charging Current ( $\pm$ 1A)	HC-15A NC-11A	HC-17A NC-12A	HC-18A NC-13A	HC-17A NC-12A
3	Transfer Time (UPS Mode)	< 10msec			
4	Battery Boost Voltage ( $\pm$ 0.2V/ Batt.)	14.4V			28.8V
5	Battery Float Voltage ( $\pm$ 0.2V/ Batt.)	13.7V			27.4V
6	Charging Voltage Range (Normal Mode)	90 VAC - 300 VAC			
7	Charging Voltage Range (UPS Mode)	180 VAC - 270 VAC			
8	Output Frequency (Back-up Mode)	50Hz $\pm$ 1Hz			
9	Output Wave Form	Pure Sine Wave			
10	Total Harmonics Distortion (THD)	<5% at Linear Load			
11	Operating Temperature Range	0°C to 45°C			
12	Over Temperature Range	90°C $\pm$ 5°C			
13	Over Load Retries	6 Time Auto Retries			
14	Battery Low Retries	4 Time Auto Retries			
15	Battery Low Pre-Alarm ( $\pm$ 0.2/Batt.)	10.8V			21.6V
16	Battery Low Cut-Off ( $\pm$ 0.2/Batt.)	10.5V			21.0V
17	Short Circuit Retry	Available			
18	Overload/Short Circuit/Battery Low Reset	Through ON/OFF Switch or Mains Input			

## WEIGHTS AND DIMENSIONS

PARAMETERS	650VA	850VA	1050VA	1450VA
Dimensions ( $\pm 10$ mm)	340x330x190			410x405x225
Net Weight ( $\pm 0.5$ Kg)	9.00 Kg	9.95 Kg	10.50 Kg	16.00 Kg
Gross Weight ( $\pm 1$ Kg)	9.75 Kg	10.80 Kg	11.50 Kg	17.30 Kg

Technical specifications are subject to change without prior notice.  
The image shown is indicative and may vary from the actual.



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