



CHADHA POWER



**TECHNICAL DATA SHEET FOR PURE SINE
WAVE SOLAR HYBRID UPS/INVERTERS**

MODELS

MODEL	RATING
650 SH PST UPS	650VA, 12V
850 SH PST UPS	850VA, 12V
1050 SH PST UPS	1050VA, 12V
1450 SH PST UPS	1450VA, 24V
2KVA SH PST UPS	2KVA, 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	Copper 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 (8~10Amp 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	LCD & LED Indicator
9	Solar Charge Controller Rating	30Amp (for upto 1450VA) & 50Amp (for 2KVA only)
10	Solar Charge Controller Type	PWM Hybrid
11	Protections	<ul style="list-style-type: none"> • Output Short Circuit Protection with Audio Alarm • Battery Reverse Protection Through DC Fuse • Short Circuit Protection at Mains Mode through AC Fuse with Audio Alarm • Battery Under Voltage and Over Voltage Charge Protection • Intelligent Overload Sensing Circuitry with auto retries facility with Audio Alarm • Phase Reverse Protection as Short Circuit with Audio Alarm • Over Temperature Protection with Audio Alarm • PV Reverse Protection with audio alarm • Reverse Current Flow Protection

TECHNICAL SPECIFICATIONS

S.NO.	PARAMETERS	650VA	850VA	1050VA	1450VA	2KVA
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	HC-20A NC-14A
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	Maximum Solar Input	450 Watt			900 Watt	1500 Watt
11	Maximum Solar Charging Current (\pm 2Amp)	30 Amp				50 Amp
12	Charge Sharing	Available				
13	Total Harmonics Distortion (THD)	<5% at Linear Load				
14	Operating Temperature Range	0 $^{\circ}$ C to 45 $^{\circ}$ C				
15	Over Temperature Range	95 $^{\circ}$ C \pm 10 $^{\circ}$ C				
16	Over Load Retries	6 Time Auto Retries				
17	Battery Low Retries	4 Time Auto Retries				
18	Battery Low Pre-Alarm (\pm 0.2/Batt.)	10.8V			21.6V	
19	Battery Low Cut-Off (\pm 0.2/Batt.)	10.5V			21.0V	
20	Short Circuit Retry	Available				
21	Overload/Short Circuit/ Battery Low Reset	Through ON/OFF Switch or Mains Input				

WEIGHTS AND DIMENSIONS

PARAMETERS	650VA	850VA	1050VA	1450VA	2KVA
Dimensions (± 10 mm)	350x325x170			400x370x250	
Net Weight (± 0.5 Kg)	9.200 Kg	10.400 Kg	11.000 Kg	17.000 Kg	17.500 Kg
Gross Weight (± 1 Kg)	9.800 Kg	11.000 Kg	11.500 Kg	18.000 Kg	18.500 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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