

TECHNICAL DATA SHEET FOR SOLAR HYBRID INVERTERS



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HOME UPS SERVICE CIRCULAR

Purpose : Introduction of PP Pure Sine Wave Solar Hybrid 12V 650VA, 12V 850VA, 12V 1050VA, 24V 1450VA, 24V 2KVA UPS

Scope : Product Awareness

SAP Code :

Model	Rating	Model
SOLAR 12V 650VA	650VA 12V	NC04-CP650-SHP
SOLAR 12V 850VA	850VA 12V	NC04-CP850-SHP
SOLAR 12V 1050VA	1050VA 12V	NC04-CP1050-SHP
SOLAR 24V 1450VA	1450VA 24V	NC04-CP1450-SHP
SOLAR 24V 2KVA	2KVA 24V	NC04-024CP020SH

Serial No. :

Model	Rating	Model
SOLAR 12V 650VA	650VA 12V	910518XXXXX
SOLAR 12V 850VA	850VA 12V	910518XXXXX
SOLAR 12V 1050VA	1050VA 12V	910518XXXXX
SOLAR 24V 1450VA	1450VA 24V	910518XXXXX
SOLAR 24V 2KVA	2KVA 24V	910518XXXXX

Serial No. Details:

91	Manufacturing Plant (91 - Roorkee Plant/ 92 - Haridwar Plant)
05	Month code (MAY)
18	Year code
XXXX	Running serial NO.

Photograph:



Identifications :

1. PP 650 SH PST UPS	4. PP 1450 SH PST UPS
2. PP 850 SH PST UPS	5. PP 2KVA SH PST UPS
3. PP 1050 SH PST UPS	

Salient Features:

Sl. No.	Features	Model
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)

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Sl. No.	Features	Model
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

Testing Specifications :

Sl. No.	Features	Model
1	No Load Output Voltage	220V \pm 7V
2	Charging Current (\pm 1A)	HC - 15A NC - 11A
3	Transfer Time (UPS Mode)	< 10msec
4	Battery Boost Voltage (\pm 0.2V/ Batt.)	14.4V
5	Battery Float Voltage (\pm 0.2V/ Batt.)	13.7V
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	450Watt
11	Maximum Solar Charging Current	30Amp \pm 2Amp
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
19	Battery Low Cut-Off (\pm 0.2/Batt.)	10.5V
20	Short Circuit Retry	Available
21	Overload/ Short Circuit/ Battery Low Reset	Through ON/OFF Switch or Mains Input

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Weight & Dimensions :

Parameters	650VA	850VA	1050VA	1450VA	2KVA
Dimensions (± 10mm)	350X325X170mm			400X370X250mm	
Net Weight (± 0.5Kg)	9.200Kg	10.400Kg	11.000Kg	17.000Kg	17.500Kg
Gross Weight (± 1Kg)	9.800Kg	11.000Kg	11.500Kg	18.000Kg	18.500Kg




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