



**POWER  
PROTECTORS**  
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# TECHNICAL DATA SHEET FOR NORMAL INVERTERS



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## PRODUCT DATASHEET

**Purpose :** Introduction of PP 650VA, 850VA, 1050VA, 24V 1450VA

**Scope :** Product Awareness

**SAP Code :**

Brand	Rating	SAP Code
PP	12V 650VA	NL00-CEIL650
PP	12V 850VA	NL00-CEIL850
PP	12V 1050VA	NL00-CEIL1050
PP	24V 1450VA	NL00-CEIL1450

**Serial No. :**

Brand	Rating	Serial No.
PP	650VA 12V	920518XXXX
PP	850VA 12V	920518XXXX
PP	1050VA 12V	920518XXXX
PP	1450VA 24V	920518XXXX

**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 12V 650VA
2. PP 12V 850VA
3. PP 12V 1050VA
4. PP 24V 1450VA

**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	Manual Mains Bypass Facility	Available
7	Display Type	LCD & LED Indicator

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Sl. No.	Features	Model
8	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 Thermal Circuit Breaker/ 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>

## Testing Specifications :

Sl. No.	Parameters	650VA	850VA	1050VA	1450VA
1	No Load Output Voltage	220V $\pm$ 7V			
2	Charging Current ( $\pm$ 1A)	HC - 13A, EC - 11A & NC - 09A			
3	Nominal Battery Voltage	12V	24V		
4	Transfer Time (UPS Mode)	< 10msec			
	Battery Boost Voltage ( $\pm$ 0.2V/ Batt.)	14.4V		28.8V	
	Battery Boost Voltage ( $\pm$ 0.2V/ Batt.)	13.7V		27.4V	
5	Charging Voltage Range (Normal Mode)	100 VAC - 280 VAC			
6	Charging Voltage Range (UPS Mode)	100 VAC - 280 VAC			
	Output Frequency (Back-up Mode)	50Hz $\pm$ 1Hz			
	Output Wave Form	Pure Sine Wave			
7	Total Harmonics Distortion (THD)	<5% at Linear Load			
8	Operating Temperature Range	0 $^{\circ}$ C to 45 $^{\circ}$ C			
	Over Temperature Range	85 $^{\circ}$ C $\pm$ 5 $^{\circ}$ C			
	Over Load Retries	6 Time Auto Retries			
9	Battery Low Retries	4 Time Auto Retries			
10	Battery Low Pre-Alarm ( $\pm$ 0.2/Batt.)	10.8V	21.6V		
	Battery Low Cut-Off ( $\pm$ 0.2/Batt.)	10.5V	21.0V		
	Short Circuit Retry	Available			
11	Overload/ Short Circuit/ Battery Low Reset	Through ON/OFF Switch or Mains Input			

## Weight & Dimensions :

Parameters	650VA	850VA	1450VA	1450VA
Dimensions ( $\pm$ 10mm)	370x335x170	370x335x170	370x335x170	440x420x220
Net Weight ( $\pm$ 0.5Kg)	9.20Kg	10.00Kg	10.50Kg	16.30Kg
Gross Weight ( $\pm$ 1Kg)	10.00Kg	10.50Kg	11.50Kg	17.80Kg



sales@power-protectors.com  
info@power-protectors.com

### Our Office Addresses

Power Protectors Canada Limited.  
5-2244, Drew Road, Mississauga, Ontario, Toronto, Canada - L5S 1B1, Phone: +1 (437) 777-8797

Power Protectors - USA - 38532  
Goodrich Way, Freemont, CA - 94536, USA.  
Phone: +1 (905) 965-4288

Power Protectors- Europe  
- 12 Cecil Road, London,  
United Kingdom - E13 0LX,  
Phone: +44 7957 658364.

Power Protectors-Australia  
- 11 Carbine Street, Box Hill,  
NSW 2765, Australia,  
Phone: +61 416 607 676.

Power Protectors - MENA  
Meydan Free Zone, Meydan Hotel.  
P. O. Box No. - 9305, Dubai - UAE.

Power Protectors - India  
2/59/1 Sree Colony, Jadavpur,  
Post Regent Estate, Kolkata: 700092  
Phone: 9830419984