



PRONTO RENEWABLES ENERGY PVT LTD



PRATHVI SERIES - NON SOLAR (HOME UPS) - SPECIFICATIONS

INVERTER RATING (KVA)	1600VA	2000VA	2500VA	3000VA
BATTERY VOLTAGE	24	24	24	24
DESIGN	LOW FREQ. TRANSFORMER BASED DESIGN			
USP OF THE PRODUCT	LITHIUM COMPATIBLE READY FOR LITHIUM, LOW ELECTROLYTIC/ACID CONSUMPTION TECHNOLOGY, LEAD ACID BATTERY EQUALISATION MODE, VOLTAGE REGULATION UPTO 165V OPTIONAL			
LITHIUM COMPATIBLE (LITHIUM SPECIAL)	4 TYPE CHARGING PROFILE FOR LITHIUM BATTERY			

A INVERTER/ SOLAR PCU		1Phase/2wire			
1	No. of Phases/Connection Type				
2	Nominal Output Voltage/Frequency (Volts/Hz)	220/50hz	220/50hz	220/50hz	220/50hz
3	Nominal VA Capacity (VA)	1600	2000	2500	3000
4	INVERTER LOAD Capacity (W) (BULB LOAD)	1.2KW	1.6KW	2KW	2.4KW
5	Battery Discharging Full Load Current (A)	53	66	83	100
6	Voltage Regulation (At No Load)	±2%	±2%	±2%	±2%
7	Freq Regulation (At No Load)	±0.5 Hz	±0.5 Hz	±0.5 Hz	±0.5 Hz
8	THD	<4%	<4%	>4%	>4%
9	Load Power Factor	0.8 lag lag to unity			
10		100-105% - 60 sec			
11	Over Loads ** :	105-110% - 30 sec			
12		110-120% - 2 sec			

B BATTERY HIGH/LOW CUT VOLTAGE					
1	Lithium (LFP) Low Batt. Alarm	PROFILE-1	22.8	22.8	22.8
2	Lithium (LFP) Low Batt. Cut		22.4	22.4	22.4
3	Lithium (LFP) High Batt./full Charge Cut		27.6	27.6	27.6
4	Lithium (LFP) Low Batt. Alarm	PROFILE-2	22.8	22.8	22.8
5	Lithium (LFP) Low Batt. Cut		22.4	22.4	22.4
6	Lithium (LFP) High Batt./full Charge Cut		28	28	28
7	Lithium (LFP) Low Batt. Alarm	PROFILE-3	22.8	22.8	22.8
8	Lithium (LFP) Low Batt. Cut		22.4	22.4	22.4
9	Lithium (LFP) High Batt./full Charge Cut		28.4	28.4	28.4
10	Lithium (LFP) Low Batt. Alarm	PROFILE-4	22.8	22.8	22.8
11	Lithium (LFP) Low Batt. Cut		22.4	22.4	22.4
12	Lithium (LFP) High Batt./full Charge Cut		28.8	28.8	28.8
13	Tubular Low Batt. Alarm	TUBULAR	21.6	21.6	21.6
14	Tubular Low Batt. Cut		21	21	21
15	Tubular High Batt./full Charge Cut		28.8	28.8	28.8
16	SMF Low Batt. Alarm	SMF/VRLA	21.6	21.6	21.6
17	SMF Low Batt. Cut		21	21	21
18	SMF High Batt./full Charge Cut		28	28	28

C GRID CHARGER					
1	Grid Voltage Range (Inverter Mode)	90V-280V (PHASE TO NEUTRAL)			
2	Grid Voltage Range (UPS Mode)	180V-265V (PHASE TO NEUTRAL)			
3	Grid Frequency Range (Freq.Sync.Range)	50 Hz ± 5%			
4	Max Battery Amps During Grid Charging (Amps)	16A	16A	16A	16A

D USER INTERFACE					
1	DISPLAY INTERFACE	LCD NUMERICAL DISPLAY			
2	DISPLAYED PARAMETERS				
1	Battery Parameters	Voltage , Battery Charging Current			
2	PV Parameters	PV Voltage, PV Current, PV Power			
3	Grid Parameters	Grid Voltage, Grid freq.			
4	Load Parameters	Load %			
5	Data Logging	OPTIONAL			
6	System Level	Fault & Warning			

3. INDICATION/PROTECTIONS					
1	PV Side Protections *	PV Reverse Polarity, PV High Current, PV High Volt			
2	Battery Side Protections	Battery Reverse Polarity, Lithium BMS Off Protection, No Battery Protection			
3	Grid Side	Over/Under Voltage, Over/Under Freq., Surge Protection, Reverse Feed Protection			
4	Load Side	Over Load, Short Circuit			

5	System Protection		Over Temperature Trip, Input Short Circuit , Output Input Short			
6	LED Indication		OPTIONAL			
7	User Keypad for Settings Change		ON/OFF, UP, DOWN, SETTING			
8	Breakers at all input		MCB / FUSE / TCB			
9	Remote Monitoring Optional		DATA MONITORING THROUGH WIFI & GPRS			
MISCELLANEOUS						
1	Degree Of Protection		IP 31			
2	Cooling method		Temp. Controlled FAN Force Cooling			
3	Operating Temperature		0-50 Degree Ambient Operation			
4	Humidity (Non Condensing)		Max. 90% Non Condensing			
5	Altitude (above sea level)		1000m Above Sea Level			
6	Housing		Sheet Metal, floor Standing / Wall Hanging			
7	Dimensions in mm (H x W x H)		395X350X225MM	375X350X335MM	375X350X335MM	375X350X335MM
8	Approx Weight (kg)		15KG	20KG	21KG	22KG
USP						
1	Zero Volt Pickup	5	Low consumption (electrolytic / acid) Technology			
2	Ready For Lithium	6	Designed For Heavy Load according to Models Rating			
3	Four Charging Profile for Lithium	7	Power Saving Technology (Inverter Cost is recovered in 3-4 Years) Optional			
4	Mains Reverse Feed Protected	8	Load according to Models Rating			
Note:						
* Related to Only solar Models						
** Depends on Models						
The specifications & Design are subject to change due to continuous improvements.						