



PRONTO RENEWABLES ENERGY PVT LTD



PRATHVI SERIES - NON SOLAR (HOME UPS) - SPECIFICATIONS

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

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

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 Temprature 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
8	Approx Weight (kg)		15KG	20KG
More USPs				
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)	
4	Mains Reverse Feed Protected	8	Load according to Models Rating	
Note:				
* Related to Only solar Models				
The specifications & Design are subject to change due to continuous improvements.				