



PRONTO RENEWABLES ENERGY PVT LTD



PRATHVI SERIES - NON SOLAR (HOME UPS) - SPECIFICATIONS

INVERTER RATING (KVA)		500VA	700VA	900VA	1100VA
BATTERY VOLTAGE		12V	12V	12V	12V
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		1Phase/2wire			
1 No. of Phases/Connection Type		1Phase/2wire			
2 Nominal Output Voltage/Frequency (Volts/Hz)		220/50hz	220/50hz	220/50hz	220/50hz
3 Nominal VA Capacity (VA)		500	700	900	1100
4 INVERTER LOAD Capacity (W) (BULB LOAD)		400	560	630	880
5 Battery Discharging Full Load Current (A)		33	46	60	71
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 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	11.4	11.4	11.4	11.4
2 Lithium (LFP) Low Batt. Cut	1	11.2	11.2	11.2	11.2
3 Lithium (LFP) High Batt./full Charge Cut		13.8	13.8	13.8	13.8
4 Lithium (LFP) Low Batt. Alarm	PROFILE-2	11.4	11.4	11.4	11.4
5 Lithium (LFP) Low Batt. Cut	2	11.2	11.2	11.2	11.2
6 Lithium (LFP) High Batt./full Charge Cut		14	14	14	14
7 Lithium (LFP) Low Batt. Alarm	PROFILE-3	11.4	11.4	11.4	11.4
8 Lithium (LFP) Low Batt. Cut	3	11.2	11.2	11.2	11.2
9 Lithium (LFP) High Batt./full Charge Cut		14.2	14.2	14.2	14.2
10 Lithium (LFP) Low Batt. Alarm	PROFILE-4	11.4	11.4	11.4	11.4
11 Lithium (LFP) Low Batt. Cut	4	11.2	11.2	11.2	11.2
12 Lithium (LFP) High Batt./full Charge Cut		14.4	14.4	14.4	14.4
13 Tubular Low Batt. Alarm	TUBULAR	10.8	10.8	10.8	10.8
14 Tubular Low Batt. Cut		10.5	10.5	10.5	10.5
15 Tubular High Batt./full Charge Cut		14.4	14.4	14.4	14.4
16 SMF Low Batt. Alarm	SMF/VRLA	10.8	10.8	10.8	10.8
17 SMF Low Batt. Cut	A	10.5	10.5	10.5	10.5
18 SMF High Batt./full Charge Cut		14	14	14	14
3 Lithium Phosphate (LP13)		12	11.7	13.8	13
4 Tall Tubular		10.8	10.5	14.4	13.7
5 SMF/VRLA		10.8	10.5	13.7	13.5

B 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
5	Voltage Stabilizer		30v Boost Volt Optional	
6	Power Saving		Transformer Off function of After Battery Boost Optional	
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	
D 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)		370X350X185MM	370X350X185MM
8	Approx Weight (kg)		7.5KG	8KG
OUR INVERTER 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)	
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.				