



PRONTO RENEWABLES ENERGY PVT LTD



PRONTO 12V SOLAR INVERTER AGNI SERIES - SPECIFICATIONS

INVERTER RATING (KVA)	500VA	700VA
BATTERY VOLTAGE	12	12
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	
SOLAR CHARGE CONTROLLER	TECHNOLOGY-PWM/VOC RANGE 20V-45V/MAX. 60amp	

A	SOLAR CHARGE CONTROLLER		SOLAR SECTION	
1	Charger Type & Topology		PWM & MPPT	
2	PV Total Nominal Capacity (KW)		1KW	1KW
3	Per Channel PV Capacity (w)(Nominal Peak)		1KW/1.2KW	1KW/1.2KW
4	Max.VOC for PWM SCC		45	45
5	Max. Battery Charging Amps From PV (Amps)		20-50	20-50
6	Battery type Supported		LEAD ACID / VRLA / LMLA / LiFePo4	
7	Min. Battery AH (Suggested)		50	100
8	Peak charging Efficiency MPPT (%)		>92%	
A.1	MPPT Charger Controller			
1	No. Of MPPT Channels		1	1
2	Max.Open Circuit PV Volts (Voc) MPPT		50	50
3	MPPT Voltage Range (Volts)		30-50	30-50
4	Max.O/P Amps per channel (MPPT Amps)		55	55
A.2	PWM Charger Controller			
1	No. Of PWM Channels		1	1
2	PV Minimum Voltage (Volts) PWM		26	26
3	Max.VOC for PWM SCC		45	45
4	Max.O/P Amps per channel (PWM Amps)		40/50	40/50
B	BATTERY HIGH/LOW CUT VOLTAGE			
1	Lithium (LFP) Low Batt. Alarm	PROFILE-1	11.4	11.4
2	Lithium (LFP) Low Batt. Cut		11.2	11.2
3	Lithium (LFP) High Batt./full Charge Cut		13.8	13.8
4	Lithium (LFP) Low Batt. Alarm	PROFILE-2	11.4	11.4
5	Lithium (LFP) Low Batt. Cut		11.2	11.2
6	Lithium (LFP) High Batt./full Charge Cut		14	14
7	Lithium (LFP) Low Batt. Alarm	PROFILE-3	11.4	11.4
8	Lithium (LFP) Low Batt. Cut		11.2	11.2
9	Lithium (LFP) High Batt./full Charge Cut		14.2	14.2
10	Lithium (LFP) Low Batt. Alarm	PROFILE-4	11.4	11.4
11	Lithium (LFP) Low Batt. Cut		11.2	11.2
12	Lithium (LFP) High Batt./full Charge Cut		14.4	14.4
13	Tubular Low Batt. Alarm	TUBULAR	10.8	10.8
14	Tubular Low Batt. Cut		10.5	10.5
15	Tubular High Batt./full Charge Cut		14.4	14.4
16	SMF Low Batt. Alarm	SMF/VRLA	10.8	10.8
17	SMF Low Batt. Cut		10.5	10.5
18	SMF High Batt./full Charge Cut		14	14
C	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)		500	700
4	INVERTER LOAD Capacity (W) (BULB LOAD)		400W	560W
5	Battery Discharging Current (A)		33	46
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 to unity	
10			100-105% - 60 sec	
11	Over Loads :		105-110% - 30 sec	
12			110-120% - 2 sec	

C GRID CHARGER			
1	Grid Voltage Range (Voltage Sync. Range)		90V-280V (PHASE TO NEUTRAL)
2	Grid Frequency Range (Freq.Sync.Range)		50 Hz ±5%
3	Max Battery Amps During Grid Charging (Amps)		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
D 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)		370X350X185MM
8	Approx Weight (kg)		7.5KG
More USPs			
1	Zero Volt Pickup	8	Load according to Models Rating
2	Ready For Lithium	9	5KVA & above TDR mode for motorise load
3	Four Charging Profile for Lithium	10	Battery Equalisation mode for Lead Acid Battery
4	Mains Reverse Feed Protected	11	3 Selectable Solar mode
5	Low consumption (electrolytic / acid) Technology	12	PV Solar Charging for battery max 50A
6	Designed For Heavy Load according to Models Rating	13	Grid Energise
7	Power Saving Technology (Inverter Cost is recovered in 3-4 Years) Optional	14	Solar Energise
Note:			
* Related to Only solar Models			
The specifications & Design are subject to change due to continuous improvements.			