PRONTO RENEWABLES ENERGY PVT LTD

PRONTO JAL SERIES -PWM 24V (INBUILT LITHIUM BATTERY) - SPECIFICATIONS

	INVERTER RATING (KVA)	**2000VA**	**2500VA**	**3000VA**
	BATTERY VOLTAGE	**24**	**24**	**24**
	BMS CAPACITY	**100AH 25.6V LITHIUM IRON PHOSPHATE (LiFePO4)**		
	BATTERY BREAKER	**NA**	**120AMP DC MCB (2500,3000va)**	
	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**				
1	Charger Type & Topology		PWM		
2	PV Total Nominal Capacity (KVA)		2KW	3KW	3KW
3	Per Channel PV Capacity (w)(Nominal Peak)		2KW/2.2KW	3KW/3.2KW	3KW/3.2KW
4	Max. Battery Charging Amps From PV (Amps)		20-50	20-50	20-50
5	Battery type Supported		LiFePo4		
6	Min. Battery AH (Suggested)		100	150	150
	PWM Charger Controller				
1	No. Of PWM Channels		1	1	1
2	PV Minimum Voltage (Volts) PWM		40	40	40
3	Max.VOC for PWM SCC		50	50	50
4	Max.O/P Amps per channel (PWM Amps)		40/50	50/70	50/70
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

C	**INVERTER/ SOLAR PCU**				
1	No. of Phases/Connection Type		1Phase/2wire		
2	Nominal Output Voltage/Frequency (Volts/Hz)		220/50hz	220/50hz	220/50hz
3	Nominal VA Capacity (VA)		2000	2500	3000
4	Battery Discharging Current (A)		66	83	100
5	Voltage Regulation (At No Load)		±2%	±2%	±2%
6	Freq Regulation (At No Load)		±0.5 Hz	±0.5 Hz	±0.5 Hz
7	THD		>4%	>4%	>4%
8	Load Power Factor		0.8 lag to unity		
9	Over Loads :		100-105% - 60 sec		
10			105-110% - 30 sec		
11			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 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)		77X590X470MM	77X590X470MM	77X590X470MM
8	Approx Weight (kg)		37KG	40KG	40KG
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) 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.					