TECHNICAL SPECIFICATION

INVERTER RATING (KVA)		3.5KVA	5KVA	10KVA
A. SOLAR CHARGE CONTROLLER (SCC)				
1	Charger Type & Topology	Buck Type MPPT		
2	PV Total Nominal Capacity (KVA)	3KW	5KW	10KW
3	No. of MPPT Channels	1	1	1
4	Per Channel PV Capacity (w) (Nominal Peak)	3.5KW/3.2KW	5KW/5.5KW	10KW/11KW
5	Max. Open Circuit PV Volts (Voc)	240	240	400
6	MPPT Voltage Range (Volts)	70-240	96-300	140-400
7	PV Minimum Voltage (Volts)	24	48	120
8	Max. I/P Amps Per Channel (Amps)	45	75	60
9	Max. Battery Amps during PV Charging (Amps)	70	100	80
10	Battery type supported	VRLA / LMLA / Li-Ion/Li-Ph (User Settable)		
11	Min. Battery AH (Suggested)	150	150	150
B. Solar Inverter				
1	No. of Phase/Connection Type	1-Phased /2 wire		
2	Nominal battery voltage (Volts)	24	48	96
3	Battery Ripple	5% for VRLA & LMLA/1% for Li-Lon/Li-Ph (User Settable)		
4	Nominal Output Voltage/Frequency (Votls/Hz)	230/50		
5	Nominal KVA Capacity (KVA)		5KVA	10KVA
6	Output Amps	10.43	17.39	34.78
7	Voltage Regulations(In Standalore Mode)	10.43	17.39	34.78
8	Freq. Regulation (in Standalore Mode)	±2%		
9	THD	±0.5Hz		
10	Load Power Factor	<3%		
11	Effiancy(%) Peak/ 100% Load /25% Load	0.8 Lag to Unity		
12	Over Loads:	110-125% - 30 Sec		
13	Max Allowed Phase Imbalance(%)	N/A		
14	Auto Bypass Feature	Provided		
C. GRID CHARGER				
1	Grid Voltage Range (Voltage Sync. Range)	160V-280V (Phase to Nutral)		
2	Grid Frequancy Range (Voltage Sync. Range)	50Hz ±5%		
3	Max Grid Import Power (KVA)	3.5KVA	5KVA	10KVA
4	Max Battery Amps During Grid Charging (Amps)	40	68	54
5	Peak Charging Efficiency (%)	>87		
INVERTER (KW)		3	4	8
1	PV Side	Reverse Polarity, Surg Protection		
2	Battery Side	Reverse Polarity, Over/Under Voltage, Current Limit		
3	Grid Side	Over/Under Voltage, Over/Under Frequency, Anti-Islanding, Surg Protection		
4	Load Side	Overloads, Short Circuit		
5	System Protection	Over Temperature Trip, Breakers at all Inputs, Emergency stop		
D. USER INTERFACE				
1	DISPLAY INTERFACE	LCD NUMERICAL DISPLAY		
2	DISPLAYED PARAMETERS	VRLA / LMLA/ Li-Ion/Li-Ph (User Suitable)		
1	Battery Parameters	Voltage, Charging Current, Discharging Current, AH-in AH-out, Cumulative AH-in, Cumulative AH-out, Charging State-Charging/Discharging		
2	PV Parameters	Voltage ,Current , Power, Cumulative, Today Generation		
3	Grid Parameters	Voltage, Current, Frequency, Import Power, Import Cumulative, Today Generation		
4	Load Parameters	Voltage, Current, Frequency, Power, Cumulative, Power Factor		
5	Data Logging	90 Days PV Generation, Import Energy, Load Energy.		
6	System Level	Faults and Wamings		
3	INDICATION/ PROTECTION			
1	LED Indication:	Power On, PV Available, PV Charging Inverter On, Grid Import Mode , Fault, HYBRID/OFF GRID Mode		
2	User Keypad for Settings Changes	Keypad for Settings Input		
3	Breakers at all Inputs/Space Heater/Emergency stop Button	Provided		
4	Over Shoot due to misbehaviour of BHMS	Provided		
5	Remote Monitoring: Optional*	Data Monitoring through (GPRS Optional)		
4	DESIGNED & MANUFACTURED THE PRODUCT AS FOR IEC	Tested as per IEC 61683,IEC61727,EN50530 and IEC60068 (1,2,14,30).		
1	MISCELLANEOUS			
2	Degree of Protection	IP31		
3	Cooling Method	Temp. Controlled Force Cooling		
4	Operating Temperature	0-55C ambient Operation		
5	Humidity (Non-condensign)	Max. 95% Non-Condensing		
6	Altitude (above Sea level)	1000m above sea level		
7	Housing	Sheet Metal ,Floor Standing	Floor Standing,Front/Rear Door	
8	Color Shade	RAL-7035/RAL-7016		
9	Cable Entry	Rear Bottom	Front Bottom	
10	Cable Termination Type	Bus Bar Type with ring type lugs		
11	Terminal Sizes (PV/Battery/Grid/Load)	TERMINAL SCREW TYPE	35-50MM/35-50MM/25MM/25MM	