



TECHNICAL SPECIFICATION FOR SOLAR OFFGRID INVERTER WITH MPPT SOLAR CHARGER - 3Ph I/P - 3Ph O/P							
RATING	KVA	12.5	15	20	25	30	40
O/P Capacity	KW	10	12	16	20	24	32
Solar Panels Max Supported	KW	10	12	16	20	24	32
Solar MPPT Charger Output Rating		50/60Amps					
Battery VDC		240 Vdc					
Voc		450V/600V(optional)					
Switching By		IGBT					
Nominal Output Voltage		L-L 400 V AC +/- 2% /230 V AC L-N					
Mains Input	Voltage Range	Acceptable Voltage Range	170-280Vac Per Phase L-N				
		Frequency	Same as Mains input ( 50HZ +/- 5% )				
		Input/Output Vector	Star/Star 4Wire/4Wire System				
		Charging Current	3A - 15A +/- 10%				
	Max Mains to Inverter Change Over Time	≤ 3 Sec					
Max Inverter to Mains Change Over Time	≤ 1 Sec						
Output	Voltage Regulation On Mains		Same as Mains input				
	Voltage Regulation in Battery mode		230V AC Nominal +/-2%(Range 210-240V selectable) Per Phase L-N				
	Freq.Reg	Mains Mode	Same as Mains input				
		Battery Mode	50Hz ±0.1HZ ( +/- 3Hz )				
	Wave Form		Pure Sine Wave				
	Power Factor		0.8				
	THD V		at linear load <5%				
	Efficiency		≥85% { peak efficiency of inverter ≥90%}				
Crest Factor		3:1					
Protections	Over Load		For 100% Load Buzzer Indication, 101% above Load Trips and Retry for 4times then Inverter shutdown {> 110% -<150% for 5 Minutes to 16 Sec, ≥ 150% - <200% For 15 Sec to 5 Sec, ≥ 200% <300% For 4Sec to 2 Sec, >300% for 1 Second}				
			(Inverter Over Voltage, Inverter OverLoad, Inverter Temperature, PV Under / Over Voltage Cutt - OFF, Battery Reverse Polarity Protection, Mains Under/Over Frequency, Mains Under/Over Voltage, Battery Under Voltage, Short circuit Protection, Surge protection.				
	Output Short Circuit		Circuit Breaker On Mains, Shutdown on Inverter				
	Battery Reverse Protection		Circuit Breaker				
	Low Battery		Load Disconnection				
	Thermal Shutdown		Unit inside Temperature at 90°C				
	Lightening/Surge		Protected upto 4KV Surge				
	Solar Reverse		Blocking Diode is provided to Prevent reverse flow of current				
Current Limiting for battery Charging		Available 10A-50A					
Battery Charging Current		Optional Battery current limit during low load on solar panel					
BATTERY PARAMETERS		NOMINAL DC VOLTAGE 240Vdc DC LOW BATTERY VOLTAGE cut 220+/-2V DC Low Voltage Warning 230+/-2V DC BOOST VOLTAGE 292 +/-2V DC VOLTAGE HIGH CUT 320+/-2V					
Priority	Solar Priority		It will charge from solar .				
	Grid Priority		It will charge from grid also when solar charging current is Low				
Environmental	Operating Ambient Temperature		-10°C to 50°C {0°C TO 45°C}				
	Relative Humidity		0-95% { 0 TO 95% - Non Condensing}				
LED Display		Input Mains RYB ,Charging On GRID,Charging On Solar,Output MAINS RYB,Overload,Low Battery (Mains ON,Alarm ON, Buzzer Mute)					
LCD Display		Battery Voltage; I/P Voltage;I/P Frequency;O/P Voltage; Grid Charging Current; Solar Voltage; Solar Charging Current; Solar Units Saved KWH(up to 999.9Units); Load %; Over Load; Battery Low; UPS/INV Mode (SCROLLING) {20x4 line lcd}					
Acoustic Noise (At one meter)		≤65db					
Weight with out Packing +/-20Kg		100Kg	120Kg	140Kg	150Kg	160Kg	
Operating Temperature		(-10 Deg C to 50 Deg C)					
Features		(Three Stage battery charging for better battery Life, Battery current Limiting, Temp Compensation  for VRLA Type Battery, Battery Type Supported - Lead Acid tubular, VRLA Inbuilt Data Logging, GPRS Mounting of all Parameters(OPTIONAL)					
Circuit Breaker		(Solar Input, Battery Input, Grid Input and Load)					