



TECHNICAL SPECIFICATION FOR SOLAR OFF Grid INVERTER WITH MPPT SOLAR CHARGER						
CAPACITY	VA		1400/2000	2500	4000	5000
CAPACITY	WATTS		1000/1600	2000	3000	4000
Battery VDC			24	48	48	48
Voc			90	150	150	180
Vmp			35-69	75-125	75-125	75 - 140
MPPT Charger			30	30	50	50
Switching By			MOSFETS	MOSFETS		MOSFETS
Nominal Output Voltage			220/230/240V AC			
User Selection Mode			UPS Mode	INVERTER Mode		
Input	Voltage Range	Acceptable Voltage Range	175-270Vac		100-300Vac	
		Low Voltage Cutoff	180±5Vac		110±10Vac	
		Low Voltage Recovery	190±5Vac		120±10Vac	
		High Voltage Cutoff	265±5Vac		290±10Vac	
		High Voltage Recovery	255±5Vac		275±10Vac	
		Frequency	50Hz Nominal (47-53 Hz Range)			
Output		Voltage Regulation On Mains	Same as Mains input			
		Voltage Regulation in Battery mode	220V AC Nominal +/-2%(Range 210-240V selectable)			
	Freq.Reg	Mains Mode	Same as Mains input			
		Battery Mode	50Hz ±0.1HZ			
		Wave Form	Pure Sine Wave			
		THD	≤3%			
	Efficiency	≥85%				
Protections		Over Load	For 100% Load Buzzer Indication, 101% above Load Trips and Retry for 4times then Inverter shutdown			
		Output Short Circuit	Circuit Breaker On Mains, Shutdown on Inverter			
		Battery Reverse Protection	Fuse/MCB			
		Low Battery	Load Disconnection			
		Thermal Shutdown	Below 0°C and Above 90°C			
		Lightening/Surge	Protected upto 4KV Surge			
		Solar Reverse	Blocking Diode is provided to Prevent reverse flow of current			
Shared Charging		On priority it will charge from solar only as long as it is giving sufficient current. When Solar Current is drops to below set point, then shared charging is activated and te balance current it will chagre from Grid.				
Priority	Grid Priority	In this Mode it will charge the battery form Solar + Grid in Sharing Grid charging starts only when Solar Current is less than set value It will shift to battery mode if battery is full from solar(i.e14.4VDC for 12V system)				
	Solar Priority	In this mode it will charge the Battery only from Solar When Battery is completely discharged, Solar is not available then only it will connect to Grid and Shared charging is activated till the Battery is Full.				
Environmental	Operating Temperature	0-45°C				
	Relative Humidity	0-95%				
Change Over time		< 20ms				
LED Display		Mains ON(RED);Charging On Mains(RED),Charging On Solar(GREEN), Duo(YELLOW); Inverter(GREEN); Battery Low(YELLOW);Overload/Short Circuit(YELLOW)				
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); Grid Priority/Solar Priority; Load %; Over Load; Battery Low; UPS/INV Mode				