



TECHNICAL SPECIFICATION FOR SOLAR HYBRID INVERTER WITH PWM SOLAR CHARGER							
CAPACITY/ VA		850	1050	800/1000/1400/2000	2500	4000	5000
CAPACITY/ WATTS		630	750	600/800/1100/1600	2000	3000	4000
Battery VDC		12	12	24	48	48	48
Voc		23	23	45	90	90	90
SOLAR CHARGE CONTROLLER - PWM		30A	30A	30A	30A	50A	50A
Nominal Output Voltage		220 V AC Nominal (230/240 V AC Selectable)					
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 (47-53Hz Range)					
Output	Voltage Regulation On Mains		Same as Mains input				
	Voltage Regulation in Battery mode		220V AC Nominal +/-2% (230/240 V AC Selectable)				
	Freq.Reg	Mains Mode	Same as Mains input				
		Battery Mode	50Hz ±0.1HZ				
	Wave Form		Pure Sine Wave				
Efficiency		≥82%(12VDC); ≥85%(24/48VDC)					
Protections	Over Load		For 100% Load - Buzzer Indication, 101% above Load Trips and Retry for				
	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 drops to below set point, then shared charging is activated and to balance current it will charge from Grid.					
Priority	Grid Priority		In this Mode it will charge the battery from 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.e.14.4VDC 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), Dual(YELLOW); Inverter(GREEN); Battery low(YELLOW/RED);Overload/Short Circuit(YELLOW/GREEN)					
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					