



RITIKA
Powering Lives Since 1985

ritSOL PWM+ : SOLAR INVERTER



Salient Features

- ✔ DSP based design with absolute and stable sine wave output
- ✔ State of art MOSFET based PWM technology with greater efficiency at lower cost with dynamic stability.
- ✔ Three Stage Solar Charging TSSC suitable for all types of battery charging.
- ✔ Protections such as Main Fuse Trip, Overload, Short circuit, Battery low, over temperature indication with buzzer as well as display on LCD available.
- ✔ Maximum Solar Utilization during charging and backup mode.
- ✔ More back-up being a sine wave UPS (ASIC)



Ritika Systems Private Limited
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Solar Panels
Solar BOS
Solar PCU
Solar EPC
Project Management

TECHNICAL SPECIFICATIONS					
System Capacity	850VA	1050VA	1050VA	1450VA	2000VA
Max PV Panel Power	500W		1000W		
Battery Voltage	12V		24V		
No Load Current	≤ 2.2A	≤ 2.4A		≤ 2.2A	
Output Voltage @ No Load	220V ± 7V				
Output Voltage @ Full Load	180V-220V				
DC Current @ Full Load	53A ± 2A	63A ± 2A	31V ± 2A	46A ± 2A	62A ± 2A
Output Frequency	50HZ ± 1HZ				
Solar Charger Type	PWM				
UPS MODE					
Low Cut Voltage	≤ 10ms 180V ± 10V				
Low Cut Recovery	9V-12 HYSTERISIS				
High Cut	280V ± 10V				
High Cut Recovery	9V-12 HYSTERISIS				
Change Over Mains to UPS	≤ 10ms				
Change Over UPS to Mains	≤ 10ms				
NORMAL MODE					
Low Cut Voltage	100V ± 10V				
Low Cut Recovery	9V-12 HYSTERISIS				
High Cut	280V ± 10V				
High Cut Recovery	9V-12 HYSTERISIS				
Change Over Mains to UPS	≤ 50ms				
Change Over UPS to Mains	≤ 10ms				
CHARGING MODE (HC/QC)					
Max Charging @ Mains Only	13A ± 1A				
Max Charging @ Solar Only	30A ± 1A				
Max Charging @ Solar + Mains	25A ± 1A				
Solar + Mains Charging Current Adding in HC Mode, Max Charging current below 13.7V Battery voltage; above 13.7V Battery Voltage charging current is 15A ± 1A					
CHARGING MODE (NC/EC)					
Max Charging @ Mains Only	13A ± 1A				
Max Charging @ Solar Only	30A ± 1A				
Max Charging @ Solar + Mains Only	25A ± 1A				
Mains Charging Current will be zero if solar current is > 13A, Max charging current below 13.7V Battery Voltage; above 13.7V Battery Voltage charging current is 15A ± 1A, system will cut off the mains when battery voltage reaches Boost voltage level and Output load is transferred to Solar + Battery Power					
BATTERY CHARGING VOLTAGE					
Boost Voltage	14.4V ± 0.2V		28.8V ± 0.2V		
Float Voltage	13.7V ± 0.2V		27.4V ± 0.2V		
PROTECTION					
Over Load Warning	Yes	Short Ckts (Main Mode)		AC Fuse Trip	Main MCB Trip
Over Load Protection	Yes	Short Circuit Protection (Battery Mode)		Yes	
Battery Low Alarm	Yes	Short Circuit Retry (Battery Mode)		Yes	
Battery Low Protection	Yes	PV Reserve Protection		Yes	
Over Temperature Alarm	Yes	Main MCB Trip/Fuse Trip		Yes	
Over Temperature Protection	Yes				

*All Protections are resetable through PCU switch & Mains

Contact at: