



TM

Making Way For NexGen Solution

SOLAR HYBRID INVERTER

INBUILT 50A SOLAR CHARGE CONTROLLER



Available in
1000VA - 5000VA



**SOLAR ADVANCE
PROTECTION**



**FUNDAMENTAL
THERMAL PROTECTION**



**INTELLIGENT
CHARGING SHARING**



**50AMP SOLAR
CHARGER CONTROLLER**



**NO
HUMMING NOISE**



**POWERFUL CHARGING
FOR LOW VOLTAGE**



FEATURES

- DSP based Pure Sine wave Output.
- Configurable critical Parameters.
- Inbuilt highly efficient PWM Solar Charge Controller.
- Various Solar Priority selection modes for better performance.
- Preference for maximum Solar Utilization.
- System can operate without Solar PV Panel.
- Charging Compatible for GEL, SMF & Tubular Battery.
- Safe Protection in Output Short-circuit & reverse Phase and PV reverse.

TECHNICAL SPECIFICATION

System Rating	1000VA	1500VA	2000VA	2500VA	3500VA	5000VA
Normal Input Battery Voltage	12V	24V		24V	48V	
Maximum PV Power	850Wp	1700Wp		1700Wp	3400Wp	
SPV Range	16VDC-25VDC	32VDC-50VDC		32VDC-50VDC	60VDC-100VDC	
Solar Charge Controller Rating	50A					
Solar Charge Controller Type	Inbuilt PWM Charge Controller					
Solar Charge Controller Technology	DSP based Intelligent Battery Charging & Charge Sharing with Grid					
Input Voltage	100V ~ 300V (STANDARD RANGE) / 180V ~ 260V (UPS RANGE) ± 5V					
Input Voltage Frequency	50Hz ± 10%					
Output Waveform	PURE SINEWAVE on Backup Mode (Battery / Solar)					
Parameters Configurable from LCD	Factory Setting					Variable Range
Grid Charging Boost Voltage Each Battery	14.4V					13.8V - 15V
Battery Low Cut Voltage Each Battery	10.6V					10.4V - 11.5V
Solar battery Low Cut Voltage Each Battery	12V					11.5 - 12.5V
Solar Charging Current	30					5A - 50A
Grid Charging Current	15A					5A - 18A
Recommended Battery Charging Voltage	SMF/GEL	13.8V - 14.0V				
	TUB	14V - 14.4V				
Grid Reconnect Voltage Range	SMF/GEL	12.0V - 12.2V				
	TUB	11.5V - 12.5V				
Changeover Time	≤ 10 Miliseconds on UPS Mode and ≤ 30 Miliseconds on Normal Mode					
Output Voltage	220V ± 10V No load to Full load.					
Battery Low Response	Battery low shutdown after 4 times auto retries with alarms.					
Overload Response	Battery low shutdown after 6 times auto retries with alarms.					
Protections	Output Over Load / Battery Low / Battery Rev. Polarity / Battery Over Discharge / Output Short Circuit / Reverse Phase / Over Heating / Reverse Solar PV					
LED & Switches	System on / UPS Mode on / Solar Priority mode / SMF-Tubular Battery Charging					
Display	Input Voltage / Solar On / PV Voltage / PV Current / PV Reverse / Solar KWh / Battery Voltage / Output Voltage / Overload / UPS ON / Load % & Actual Watt / Short Circuit / Thermal Trip / Battery Loose Connection / Fuse Blown					
Operating Temperature	0-50°C					
Cooling	Fan					
Max. Relative Humidity @ 25°C (Non Condensing)	95%					
Noise @ 1meter	50db					
Standard Compliance	IP20					

Solar Inverter Operating Mode

Hybrid Mode	PCU Mode Light	PCU Mode Ultra
This mode recommended where power cut is for very long duration of time. (More than 10 Hrs)	This mode is recommended where Power cut is moderate. (4-5 Hrs)	This mode is recommended where Power cut is very less. (Less than 2 Hrs)

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