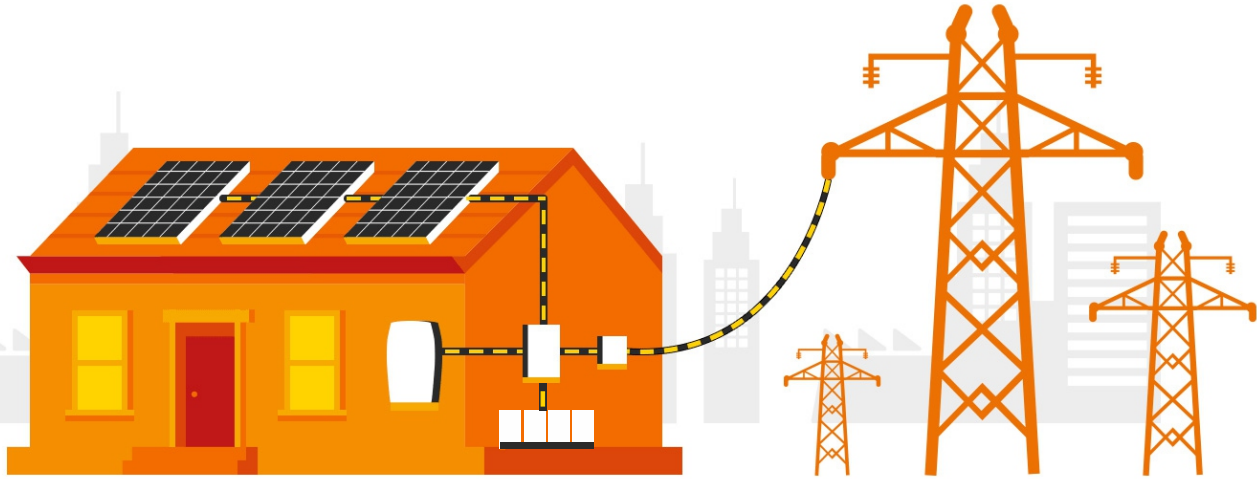


SOLAR HYBRID INVERTER

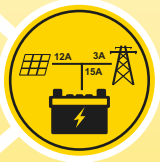
which can operate as standalone power generator in off grid areas



OUTPUT CAPACITY RANGE : 1000VA TO 2800VA



FUNDAMENTAL THERMAL PROTECTION



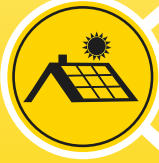
INTELLIGENT CHARGING SHARING



ADVANCE PROTECTIVE FEATURES



POWERFUL CHARGING AT LOW VOLTAGES



INBUILT 50A SOLAR CHARGE CONTROLLER



NO HUMMING NOISE





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	1200VA	1600VA	2100VA	2800VA
Normal Input Battery Voltage	12V		24V		24V
Maximum PV Power	850Wp		1700Wp		1700Wp
SPV Range	16VDC - 25VDC		32VDC - 50VDC		32VDC - 50VDC
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	≤ 4 Milliseconds on UPS Mode and ≤ 30 Milliseconds 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)

S.S. ELECTRONICS

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PRODUCT RANGE

1000VA - 2800VA