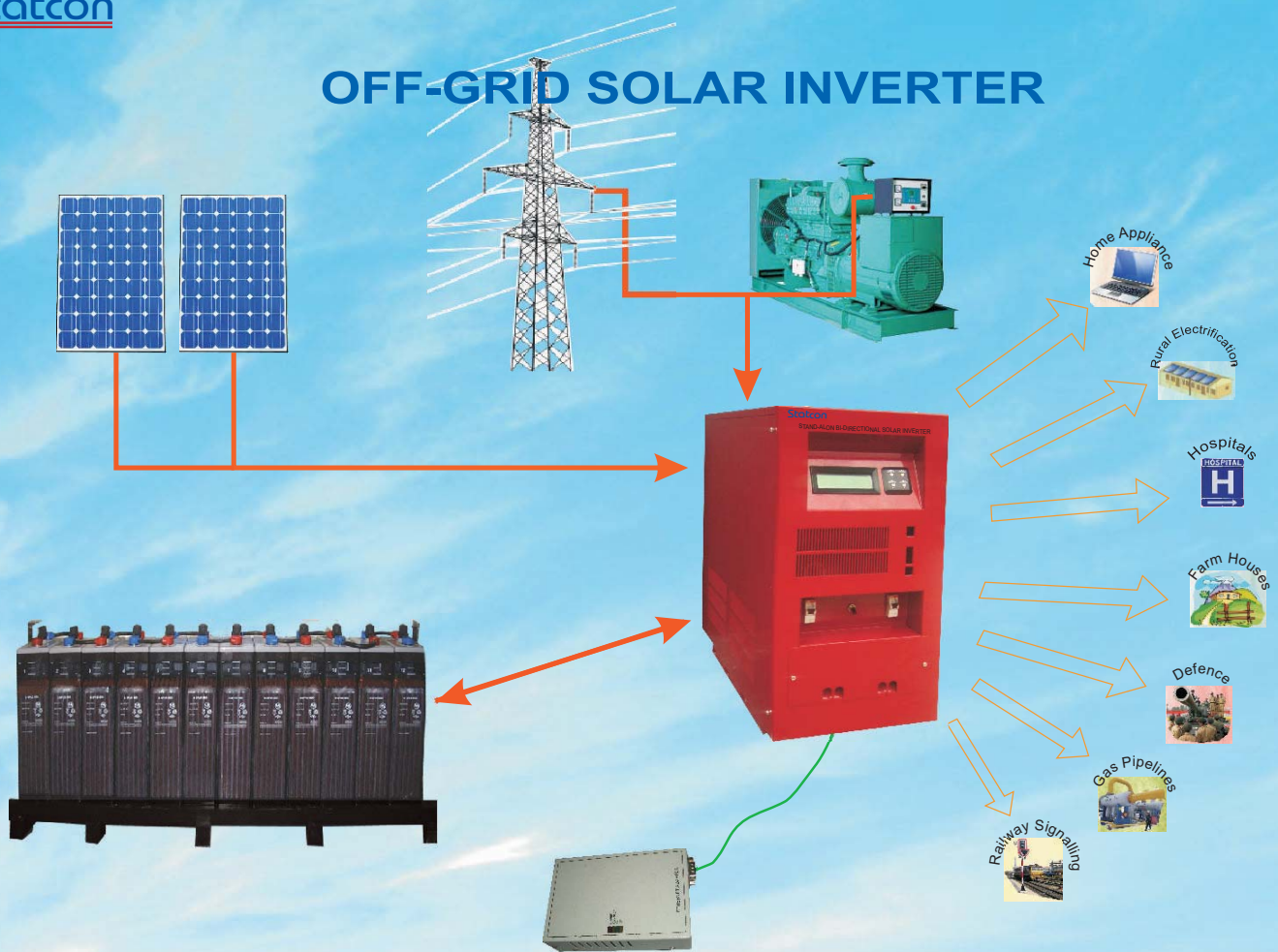


OFF-GRID SOLAR INVERTER



Statcon’s Off-Grid Solar Inverter range is designed to meet the requirement of Rural and other remote site applications where grid may or may not be available. This Hybrid system can be used with Solar, Mains and DG set combination with only solar or all the three sources available.

SPECIAL FEATURES

- ◆ Adaptive algorithm for high efficiency MPPT Solar Charger
- ◆ High efficiency DC-DC power conversion
- ◆ Low current distortion and high PF during charging mode
- ◆ Available from 1KVA to 15KVA in wide voltage range
- ◆ Multi stage battery charging including temperature compensation
- ◆ Fast changeover time
- ◆ High inrush current
- ◆ Current sharing between Solar & AC when present
- ◆ Auto DG start-stop as per requirement
- ◆ Digital display with keypad control
- ◆ RS-485 with extended touch screen display
- ◆ Data logging with storage and GPRS monitoring (optional)

APPLICATIONS

- ◆ Rural Electrification
- ◆ Remote Sites
- ◆ Farm Houses
- ◆ Govt. Rural Health Schemes
- ◆ Remote Telecom, Oil, Gas pipelines
- ◆ Defence

The principle of operation of the Off-Grid Solar Inverter System is based on DSP technology. The latest DSP base circuit is used to control and monitor the type of conversion, i.e, Battery charging or Battery to Load / AC power conversion. The high conversion efficiency helps in longer battery backup. The advantage of low current harmonics and high PF is that it reduces the AC power bill (when working on mains) or reduced diesel consumption (when working on DG set).

OFF-GRID SOLAR INVERTER

TECHNICAL DETAILS

Nominal Capacity*	1kVA - 3kVA	6kVA	10kVA	15kVA
Nominal Battery Voltage**	48V	110V	120V / 220V	220V
Maximum Battery Charging Current from AC	@ C/10 rate or as per design	@ C/10 rate or as per design	@ C/10 rate or as per design	@ C/10 rate or as per design
Overload	110% for 30 sec., 150% for 5 sec., 200% for 2 sec.			
Nominal AC Voltage	230V AC,±15%, Single Phase			
Mains input frequency range	45 to 55Hz.			
Inverter / Charger efficiency	>90% at nominal voltage and power			
THD	<3%, with resistive load			
Output voltage regulation	2%			
Protections	PV Over Voltage / Under Voltage Battery Reverse Polarity Protection Battery Over Voltage / Under voltage Mains Over Voltage / Under Voltage Surge Protection			
Battery type supported	Lead Acid Tubular, VRLA, Ni-Cd Charging characteristics tailored to suit the battery			
Features	Float / Boost Charging PV Voltage / Current / Input Power / Output Power/ KWH			
Communication Port	Isolated RS232 DB-9 female connector Isolated RS485 screw terminal connector Communication protocols & MODBUS RTU (RS232 / RS485) (optional)			
Circuit Breaker	PV Input, Battery Input, Mains Input, Load			
Operating Temperature	-10°C to 50°C without derating			
Enclosure	Free standing			

* Other capacities also available on request

** Other voltages also available on request

STATCON'S PRODUCT RANGE FOR SOLAR APPLICATIONS

- Hybrid solar Inverter
- 24V / 48V MPPT Charge Controllers
- 110V / 220V MPPT Chargers
- Intelligent String Monitor
- Array Junction Box
- 24V / 48V DC Solar-Mains-DG-Hybrid System
- MW Solar Inverter Solution from Answer Drives, Italy
- 3 Phase Bi-Directional solar Inverter

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