Energiaa’s SEOG Series is the No.1 Trusted solar inverter technology in the Indian Market. Smart management of renewable Solar Power, Grid Supply and Battery allows it to deliver power seamlessly for all electrical applications, thus significantly reducing Diesel consumption and electricity bill. Built for high performance against the typically tough Indian grid conditions, SEOG Series provides you an economical power solution and gives the benefit of optimal renewable energy, 365 days a year.

5 Mode Priority Selection
To extract maximum solar charged energy from battery
Solar Priority Mode no grid charging | For Areas With Reliable Grid
Battery Extra Backup Mode | Normal Home Inverter Mode

Monitoring
Largest LCD Display in its class for great visuals
Inbuilt data logging capability up to 5 years
RS 232, GPRS, WiFi remote monitoring available

Industrial Grade Inverter
Designed for reliability against frequent grid variations
Transformer provides galvanic isolation and has a long life
Protective breakers at all inputs & outputs

Plug N Play
Rewireable inline plugs for AC input and output
Ideal for solar integrators due to ease of installation
Designed for hassle free commissioning

Applications
- Residences
- Petrol Pumps
- Schools
- Hotels
- Rural Micro Grids
- Small Offices

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Technical Datasheet

### SOLAR INVERTER
- **Inverter Rating**: 500VA, 1kVA, 1kVA, 2kVA, 3kVA, 4kVA, 5kVA, 6kVA, 7.5kVA, 8kVA, 10kVA
- **Nominal Battery Voltage**: 24V, 48V
- **No of Phases**: Single Phase
- **Nominal Output Voltage**: 230 VAC | True Sine Wave
- **Output Frequency**: 50 Hz
- **Priority Modes**:
  - Mode 1: Solar Priority Mode with no grid charging
  - Mode 2: For Areas With Reliable Grid
  - Mode 3: To extract maximum solar charged energy from battery
  - Mode 4: Battery Extra Backup Mode
  - Mode 5: Normal Home Inverter Mode
- **Voltage Regulation**: ± 2%
- **Frequency Regulation**: ± 0.5 Hz
- **THD**: < 3%
- **Load Factor**: 0.8 to Unity
- **Efficiency (Peak)**: 82% - 90%
- **Over Load 60 sec / 30 sec / 10 sec / 5 sec**: 110% - 150% - 200%
- **Changeover Time**: <20 mSec
- **Auto Bypass Feature**: Provided

### SOLAR CHARGE CONTROLLER
- **Charge Controller Type**: MPPT
- **Charger Topology**: Buck Type
- **No of MPPT Channel**: 1 (Single Channel)
- **PV Nominal Capacity**: 500 W, 1 KW, 1 KW, 2 KW, 3 KW, 4 KW, 5 KW, 6 KW, 7.5 KW, 8 KW, 10 KW
- **Max. Open Circuit PV Volts. Voc**: 90 V, 190 V, 320 V, 320 V
- **PV Voltage Range (Vmp)**: 30 - 75 V, 70 - 140 V, 140 - 250 V, 140 - 250 V / 165 - 250 V
- **Peak Charging Efficiency**: ≥92%

### BATTERY
- **Battery Type Supported**: Lead Acid tubular | VRLA | LMLA | Li-Ion (Selected Models)
- **Battery Charging Process**: 3 stage Battery Charging Process | Bulk | Absorb | Float

### GRID CHARGER
- **I/P Voltage Range**: 47 - 53 Hz
- **I/P Frequency range**: 150 - 270 VAC
- **Peak Charging Efficiency**: 180%

### PROTECTIONS
- **AC Over Voltage**: AC Under Frequency, Over Temperature
- **AC Under Voltage**: Battery Over Voltage, PV Reverse Polarity
- **O/P Overload**: Battery Under Voltage, PV Surge Protection
- **O/P Short Circuit**: Battery Reverse Polarity, PV Over Voltage
- **AC Over Frequency**: Battery Current Limit, Galvanic Isolation

### USER INTERFACE
- **A. DISPLAYED PARAMETERS**
  - **Inverter Voltage**: Battery Voltage, Battery Current Charging / Discharging, PV Voltage, PV Current, Date, Time
  - **Inverter Grid Frequency**: Battery Temperature, PV kWh Cumulative
  - **Inverter Load (KVA)**: Battery Charging Mode, 30 days daily PV kWh
  - **Inverter Load (KWh)**: System Temperature, Monthly Generated kWh
  - **Grid Voltage**: PV Power (W), Yearly Generated kWh
  - **Inverter Under Voltage**: PV Over Voltage, TCS Fail (if VRLA)
  - **Inverter Over Voltage**: System short Circuit, Battery Low Alarm
  - **Solar Charger Over Load**: System Over Load
  - **Battery Under Voltage**: DC Over Voltage
  - **AC Under Frequency**: AC Over Frequency
  - **System Trip/Off**: System Over Temperature
  - **System Power On**: Load On Grid / Grid Charging / Grid Available
  - **Inverter On (Load on Inverter)**: Battery Low
  - **Solar Available / Solar Charging**: Fault

### D. MONITORING
- **RS 232**: All parameters on display can be remotely seen on PC/Laptop via provided GUI software. All logged parameters can be saved in Excel format.
- **GPRS**: All parameters can be viewed over internet by accessing through a user ID and password (Add on Feature)
- **WiFi**: Download the Energia lite app to easily observe all parameters of your SEGO SERIES solar PUC (Add on Feature)
- **SD - Card**: DATA LOGGING in Micro SD Card. All parameters can be logged in Micro SD memory card as per date / time. Logged parameter can be viewed / Saved through Laptop / PC.

### E. MISCELLANEOUS
- **Degree of Protection**: IP - 2X
- **Type of Cooling**: Temperature Controlled Fan Forced
- **Operating Temperature**: -10°C to 50°C
- **Humidity**: Max. 95% Non-Condensing
- **Altitude**: 1000m above sea level
- **Cable Entry**: From Rear - Bottom
- **Housing**: Floor Standing

### APPROVALS
- CE Test Certification : IEC 61683, IEC 60068-2-11, IEC 60529

### NOTE:
- In Grid charger mode/ Grid Bypass to Load Mode, the output available on load terminals is just the Grid supply present and not a regulated output.
- In charger mode, overload protection of 110%, 125%, 150% and 200% are not available. Only overload protection present are Mains and Load MCB.

### AVAILABLE PRODUCTS VARIANTS FOR SOLAR APPLICATIONS
- **Single Phase Off-Grid Solar Inverter**
- **3 Phase Central Grid Tie Inverters**
- **1/3 Phase Hybrid Solar Inverter**
- **3 Phase String Inverters**
- **Green Load Bank**
- **Telecom DC Hybrid System**
- **Intelligent String Monitoring Units**
- **Array Junction/Combiner Boxes**
- **Energy Storage Systems**
- **MPPT Charge Controllers**

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