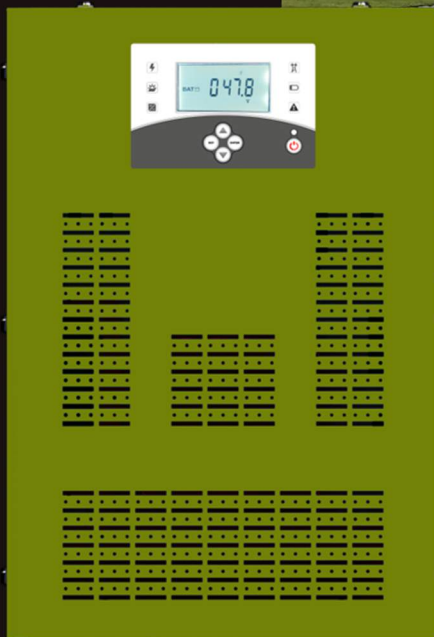










SEOG SERIES



-  Increased solar power generation
-  Less dependency on grid
-  3 mode of priority
-  Optional grid charging
-  Largest LCD display
-  Optional two-way IoT access

1KVA/24V

1-8KVA/48V

5-8KVA/96V

5-12.5KVA/120V

15KVA/240V *

MPPT-BASED PCU (SINGLE PHASE)

The Heavyduty Soldier of Solar Inverters

Built for harsh Indian weather conditions. Our MPPT-based PCU uses smart management of renewable solar power, grid supply and battery. This allows it to deliver power seamlessly for all electrical applications - thus significantly reducing diesel consumption and electricity bill. Result: Economical power solution giving benefit of optimal renewable energy - 365 days a year

*Other customised ratings available on request

LOW VOLTAGE 48V 1-8 KVA SEOG SERIES MPPT-BASED PCU



With Energiaa's range of SEOG series single-phase inverters, gone is the time where the entire family had to sit in one room in case of a power-cut. These are build for maximum power extraction, thanks to our latest MPPT polynomial algorithm. We use advanced DSP Controllers that deliver high-performance for real-time signal processing. You can now enjoy a much faster RoI with the biggest-in-class LCD display.

Applications



RATINGS	1KVA/24V	1KVA/48V	2KVA/48V	3KVA/48V	4KVA/48V	5KVA/48V	6KVA/48V	8KVA/48V
Model No.	SEOG-024-1K0-1P	SEOG-048-1K0-1P	SEOG-048-2K0-1P	SEOG-048-3K0-1P	SEOG-048-4K0-1P	SEOG-048-5K0-1P	SEOG-048-6K0-1P	SEOG-048-8K0-1P
A. MPPT CHARGER								
Type (Buck)	MPPT							
Nominal Capacity (KWp)	1	1	2	3	4	5	6	8
Max PV Strings in parallel	2	1	2	3	4	5	6	8
No of MPPT Channel	1							
Max. Open Circuit Voltage (Voc)	90				190			
MPPT Tracking Range (Vmp)	35-72				75-160			
Max Output Current (A)	40	20	40	60	80	100	120	160
Peak Efficiency	≥92%				≥94%			
B. SOLAR INVERTER								
Nominal Capacity	1KVA	1KVA	2KVA	3 KVA	4 KVA	5KVA	6KVA	8KVA
Output Current (A)	3.5	3.5	7.0	10.4	13.9	17.4	20.8	27.8
Battery Voltage (V)	24							
Output Voltage/ Freq/Phase	230V(± 2%)/50Hz/1P+N							
Load Power Factor	0.8- unity							
Peak Efficiency	≥85%				≥88%			
Over Loads: 60 sec/ 30 sec/ 5 sec	101-110%/111-150%/151-200%							
Auto Bypass Feature	Provided							
C. GRID CHARGER								
Grid Voltage Range (V)	230V (+10% & -20%)							
Grid Freq Range(Hz)	50Hz (+5% & -5%)							
Max Grid Import Power	1.5KVA	1.5KVA	3KVA	4.5 KVA	6 KVA	7.5KVA	9KVA	12KVA
D. PROTECTIONS & DISPLAY PARAMETERS								
	PROTECTIONS				LCD PARAMETERS			
PV Side	• Reverse Polarity, PV Overload, Surge Protection (MOV)				• Voltage, Current, Power , Energy			
Battery Side	• Reverse Polarity, O/U Voltage, Current Limit				• Voltage, Current, Battery Charging/Discharging			
Grid Side	• O/U Voltage, O/U Frequency , Surge Protection (MOV)				• Voltage, Current, Frequency			
Load Side	• O/U Voltage, Overloads, Short Circuit , Surge Protection (MOV)				• Voltage, Current, Frequency, Load %			
Miscellaneous	• Over Temperature				• Mode of Operation, Faults			
E. MISCELLANEOUS								
Switchgear Protection	MCB/MCCB provided in PV, Battery, Load & Grid path.							
LED Indications	Power On, Inverter ON, Solar Present/Charging, Load On Grid/Charging, Battery Low, System Trip							
Remote Monitoring	Optional through GPRS based Modem							
Ingress Protection	IP-21 (Indoor Type)							
Operating Temperature	0-50 degrees (without Derating)							
Type of Cooling	Forced Cooled (Temp. Controlled)							
Humidity	Max. 95% Non -Condensing							
Altitude	1000m above sea level							
Color Shade	Green/White							
Dimensions(H X W X D)	175 X 450 X 360			400 X 275 X 550			475X300X680	

HIGH VOLTAGE 5-15 KVA SEOG SERIES MPPT-BASED PCU

Our high-voltage 5-15 KVA SEOG Series MPPT-based PCU is built to perform steadily in difficult grid conditions. Whether it is the heavy load of a Petrol Pump, the 24-hour-demand of your office load, or your school that is looking to adopt solar power, this heavy-duty inverter will drastically reduce electricity consumption and diesel-dependence. Along with the biggest-in-class LCD display and IoT-readiness, this inverter also offers faster Rol.



Applications



RATINGS	5KVA/96V	6KVA/96V	8KVA/96V	5KVA/120V	8KVA/120V	10KVA/120V	12.5KVA/120V	15KVA/240V
Model No.	SEOG-096-5K0-1P	SEOG-096-6K0-1P	SEOG-096-8K0-1P	SEOG-120-5K0-1P	SEOG-120-8K0-1P	SEOG-120-10K0-1P	SEOG-120-12K5-1P	SEOG-240-15K0-1P
A. SOLAR CHARGE CONTROLLER								
Type (Buck)	MPPT							
PV Nominal Capacity (Total KWp)	5	6	8	5	8	10	12.5	15
Max PV Strings in parallel	4	5	6	4	6	6	6	5
No of MPPT Channel	1							
Max. Open Circuit PV Volts (Voc)								700
MPPT Voltage Range (Vmp)	140-299			165-299			365-560	
Max Output Current (A)	50	60	80	40	64	80	100	60
Peak Charging Efficiency	≥94%							
B. SOLAR INVERTER								
Nominal Capacity	5KVA	6KVA	8KVA	5KVA	8KVA	10KVA	12.5KVA	15KVA
Output Current (A)	17	21	28	17.4	27	35	43	52
Battery Voltage (V)	96			120			240	
Output Voltage/ Freq/Phase	230V(± 2%)/50Hz/1P+N							
Load Power Factor	0.8- unity							
Peak Efficiency	≥90%							
Over Loads: 60 sec/ 30 sec/ 5 sec	101-110%/111-150% /151-200%							
Auto Bypass Feature	Provided							
C. GRID CHARGER								
Grid Voltage Range	230V (+10% & -20%)							
Grid freq Range(Hz)	50Hz (+5% & -5%)							
Max Grid Import Power	7.5KVA	9KVA	12KVA	7.5KVA	12KVA	15KVA	19KVA	22.5KVA
D. PROTECTIONS & DISPLAY PARAMETERS								
	PROTECTIONS				LCD PARAMETERS			
PV Side	• Reverse Polarity, PV overload, Surge Protection (MOV)				• Voltage, Current, Power , Energy			
Battery Side	• Reverse Polarity, O/U Voltage, Current Limit				• Voltage, Current, Battery Charging/Discharging			
Grid Side	• O/U Voltage, O/U Frequency , Surge Protection (MOV)				• Voltage, Current, Frequency			
Load Side	• O/U Voltage, Overloads, Short Circuit , Surge Protection (MOV)				• Voltage, Current, Frequency, Load %			
Miscellaneous	• Over Temperature				• Mode of Operation, Faults			
E. MISCELLANEOUS								
Switchgear Protection	MCB/MCCB provided on PV, Battery, Load & Grid path.							
LED Indications	Power On, Inverter ON, Solar Present/Charging, Load On Grid/Charging, Battery Low, System Trip							
Remote monitoring	Optional through GPRS based Modem							
Ingress Protection	IP-21 (Indoor Type)							
Type of Cooling	Forced Cooled (Temp. Controlled)							
Operating temperature	0-50 degrees (without Derating)							
Humidity	Max. 95% Non-Condensing							
Altitude	1000m above sea level							
Color Shade	Black							
Dimensions(H X W X D)	652 X 375 X 825				590 X 400 X 700		650 X 450 X 753	