







## SEOG SERIES

-  MPPT for maximum solar utilisation
-  Less dependency on grid
-  3 modes of priority
-  Optional grid charging
-  LCD display
-  Optional two-way IoT access

1KVA/24V

1-6KVA/48V

5-7.5KVA/96V

5-15KVA/120V

15-20KVA/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. Results: Economical power solution giving benefit of optimal renewable energy-365 days a year

\*Other customised ratings available on request

## LOW VOLTAGE (48V) 1-6 KVA SEOG SERIES MPPT-BASED PCU



With Statcon Energiaa's range of SEOG series single-phase inverters, gone is the time when the entire family had to sit in one room in case of a power cut. These are built 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. With this solar companion, you can now enjoy a much faster RoI and peace of mind.

### Applications



RATING	1KVA/24	1KVA/48V	2KVA/48V	3KVA/48V	5KVA/48V	6KVA/48V
MODEL NO.	SEOG-024-1K0-1P	SEOG-048-1K0-1P	SOG-048-2K0-1P	SEOG-048-3K0-1P	SEOG-048-5K0-1P	SEOG-048-6K0-1P
<b>A. MPPT CHARGER</b>						
Type (Buck)	MPPT					
PV Normal Capacity (KWp)	1	1	2	3	5	6
Max PV Strings in parallel	2	1	2	3	5	6
No of MPPT Channel/No. of Input	1/1					
Max. Open Circuit Voltage (Voc)*	105	190				
MPPT Tracking Range (Vmp)*	32-72	75-160				
Max Output Current (A)	40	20	40	60	100	120
Peak Charging Efficiency	≥92%			≥94%		
<b>B. SOLAR INVERTER</b>						
Nominal Capacity	1KVA	1KVA	2KVA	3KVA	5KVA	6KVA
Output Current(A)	3.5	3.5	7.0	10.4	17.4	20.8
Battery Voltage(V)	24	48				
Output Voltage/Freq/Phase	230V(±2%)/50Hz/1P+N					
Peak Efficiency	≥85%	≥88%				
Over Loads: 60sec/ 30sec/ 5sec	101-110%/111-150%/151-200%					
Auto Bypass Feature	Provided					
<b>C. GRID CHARGER</b>						
Grid Voltage Range (V)	230V(+10%&-20%)					
Grid Freq Range(Hz)	50Hz(+5% & -5%)					
Max Grid Import Power	1.5KVA	1.5KVA	3KVA	4.5KVA	7.5KVA	9KVA
<b>D. PROTECTIONS &amp; DISPLAY PARAMETERS</b>						
	<b>PROTECTIONS</b>			<b>LCD PARAMETERS</b>		
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, Frequency		
Load Side	• O/U Voltage, Overloads, Short Circuit, Surge Protection (MOV)			• Voltage, Current, Frequency, Load%		
Miscellaneous	• Over Temperature			• Mode of Operation, Faults		
<b>E. MISCELLANEOUS</b>						
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	GPRS based Modem (at extra cost)					
Ingress Protection	IP-20(Indoor Type)					
Operating Temperature	0-50 degree(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×W×D)	175×450×360	347×275×385	348×295×415	448×275×580	498×300×680	

\*\* The above models are compatible with Lead-Acid batteries only. Lithium compatibility requires extra hardware/ software (at extra cost), which is factory-fitted only. Statcon Energiaa Pvt. Ltd. reserves the right to modify or withdraw any of the ratings or technical specifications.

\* Revised Voc & Vmp are effective from 21-09-2023

## HIGH VOLTAGE (96-120V) 5-10 KVA SEOG SERIES MPPT-BASED PCU

Our high voltage 5-10 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 looking to adopt solar power, this heavy-duty inverter will drastically reduce electricity consumption and diesel dependence. Along with a larger LCD display and IoT-readiness, this inverter also offers faster RoI.



### Applications



RATINGS	5KVA/96V	6KVA/96V	7.5KVA/96V	5KVA/120V	7.5KVA/120V	10KVA/120V
Model NO.	SEOG-096-5K0-1P	SEOG-096-6K0-1P	SEOG-096-7K5-1P	SEOG-120-5K0-1P	SEOG-120-7K5-1P	SEOG-120-10K0-1P
<b>A. MPPT CHARGER</b>						
Type (Buck)	MPPT					
PV Nominal Capacity (Total KWp)	5	6	7.5	5	7.5	10
Max PV String in Parallel	3	4	5	3	5	6
No of MPPT Channel/No of Input	1/1					
Max. Open Circuit PV Volts (Voc)*	320					
MPPT Voltage Range (Vmp)*	165-280					
Max Output Current (A)	50	60	75	40	60	80
Peak Charging Efficiency	≥94%					
<b>B. SOLAR INVERTER</b>						
Nominal Capacity	5KVA	6KVA	7.5KVA	5KVA	7.5KVA	10KVA
Output Current(A)	17.5	21	26	17.5	26	35
Battery Voltage(V)	96			120		
Output Voltage/Freq/Phase	230V(±2%)/50Hz/1P+N					
Peak Efficiency	≥88%					
Over Loads: 60sec/ 30sec/ 5sec	101-110%/111-150%/151-200%					
Auto Bypass Feature	Provided					
<b>C. GRID CHARGER</b>						
Grid Voltage Range (V)	230V(+10%&-20%)					
Grid Freq Range(Hz)	50Hz (+5%&-5%)					
Max Grid Import Power	7.5KVA	9KVA	11.25KVA	7.5KVA	11.25KVA	15KVA
<b>D. PROTECTIONS &amp; DISPLAY PARMETERS</b>						
	<b>PROTECTIONS</b>			<b>LCD PARAMETERS</b>		
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, Frequency		
Load Side	• O/U Voltage, Overloads, Short Circuit, Surge Protection (MOV)			• Voltage, Current, Frequency, Load%		
Miscellaneous	• Over Temperature			• Mode of Operation, Faults		
<b>E. MISCELLANEOUS</b>						
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	GPRS based Modem (at extra cost)					
Ingress Protection	IP-20 (Indoor Type)					
Type of Cooling	Forced Cooled (Temp. Controlled)					
Operating Temperature	0-50 degree(Without Derating)					
Humidity	Max. 95% Non-Condensing					
Altitude	1000m above sea level					
Color shade	Black					
Dimensions(H×W×D)	650X375X625	550X325X697	650X375X625	550X325X697	650X375X625	550X325X697

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## HIGH VOLTAGE (120-240V) 10-20 KVA SEOG SERIES MPPT-BASED PCU



Our high voltage 10-20 KVA SEOG Series MPPT-based PCU is built to perform steadily in difficult grid conditions. Whether it is the heavy load of a 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 a larger LCD display and IoT-readiness, this inverter also offers faster RoI.

### Applications



RATINGS	12.5KVA/120V	15KVA/120V	15KVA/240V	20KVA/240V
Model NO.	SEOG-120-12K5-1P	SEOG-120-15K0-1P	SEOG-240-15K0-1P	SEOG-240-20K0-1P
<b>A.MPPT CHARGER</b>				
Type (Buck)	MPPT			
PV Nominal Capacity (Total KWp)	10	15	15	20
Max PV String in Parallel	6	9	5	6
No of MPPT Channel/No of Input	1/1			
Max. Open Circuit PV Volts (Voc)*	320		650	
MPPT Voltage Range (Vmp)*	165-280		330-570	
Max Output Current (A)	80	120	60	80
Peak Charging Efficiency	≥94%			
<b>B. SOLAR INVERTER</b>				
Nominal Capacity	12.5KVA	15KVA	15KVA	20KVA
Output Current(A)	43.5	52	52	70
Battery Voltage(V)	120		240	
Output Voltage/Freq/Phase	230V(±2%)/50Hz/1PN			
Peak Efficiency	≥88%			
Over Loads: 60sec/30sec/5sec	101-110%/111-150%/151-200%			
Auto Bypass Feature	Provided			
<b>C. GRID CHARGER</b>				
Grid Voltage Range (V)	230V(+10%&-20%)			
Grid Freq Range(Hz)	50Hz (+5%&-5%)			
Max Grid Import Power	18.7KVA	22.5KVA	22.5KVA	30KVA
<b>D. PROTECTIONS &amp; DISPLAY PARMETERS</b>				
	<b>PROTECTIONS</b>		<b>LCD PARAMETERS</b>	
PV Side	<ul style="list-style-type: none"> <li>Reverse Polarity, PV Overload, Surge Protection (MOV)</li> <li>Reverse Polarity, O/U Voltage, Current Limit</li> <li>O/U Voltage, O/U frequency, Surge Protection (MOV)</li> <li>O/U Voltage, Overloads, Short Circuit, Surge Protection (MOV)</li> <li>Over Temperature</li> </ul>		<ul style="list-style-type: none"> <li>Voltage, Current, Power, Energy</li> <li>Voltage, Current, Battery Charging/Discharging</li> <li>Voltage, Frequency</li> <li>Voltage, Current, Frequency, Load%</li> <li>Mode of Operation, Faults</li> </ul>	
Battery Side				
Grid Side				
Load Side				
Miscellaneous				
<b>E. MISCELLANEOUS</b>				
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	GPRS based Modem (at extra cost)			
Ingress Protection	IP-20(Indoor Type)			
Type of Cooling	Forced Cooled (Temp. Controlled)			
Operating Temperature	0-50 degree (Without Derating)			
Humidity	Max. 95% Non-Condensing			
Altitude	1000m above sea level			
Color shade	Black			
Dimensions (H×W×D)	650×450×753	667.50×500×700	650×450×753	667.50×500×700

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