









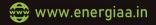


MPPT-BASED PCU (SINGLE PHASE)

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 1-6 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 Rol and peace of mind with this solar companion.

Applications









Clinics





Residences

Bank ATM

Shops

Farm House

RATINGS	1KVA/24	1KVA/48V	2KVA/48V	3KVA/48V	4KVA/48V	5KVA/48V	6KVA/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
A. MPPT CHARGER							
Type (Buck)				MPPT			
PV Nominal Capacity (KWp)	1	1	2	3	4	5	6
Max PV Strings in parallel	2	1	2	3	4	5	6
No of MPPT Channel/No. of Input				1/1			
Max. Open Circuit Voltage (Voc)	SEOG-024-1K0-1P SEOG-048-1K0-1P SEOG-048-2K0-1P SEOG-048-3K0-1P SEOG-048-5K0-1P SEOG-048-6K0-1P						
MPPT Tracking Range (Vmp)	35-72 75-160						
Max Output Current (A)	40	20	40	60	80	100	120
Peak Charging Efficiency	≥92% ≥94%						
B. SOLAR INVERTER	B. SOLAR INVERTER						
Nominal Capacity	1KVA	1KVA	2KVA	3 KVA	4 KVA	5KVA	6KVA
Output Current (A)	3.5	3.5	7.0	10.4	13.9	17.4	20.8
Battery Voltage (V)	24 48						
Output Voltage/ Freq/Phase	-: ···						
Peak Efficiency	≥85% ≥88%						
Over Loads: 60 sec/ 30 sec/ 5 sec			101-1	.10%/111-150% /151-	200%		
Auto Bypass Feature							
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
D. PROTECTIONS & DISPLAY PARAMETERS							

PROTECTIONS

LCD PARAMETERS

PV Side Battery Side Grid Side

Load Side

- Reverse Polarity, PV Overload, Surge Protection (MOV)
- Reverse Polarity, O/U Voltage, Current Limit
- O/U Voltage, O/U Frequency , Surge Protection (MOV)
 O/U Voltage, Overloads, Short Circuit , Surge Protection (MOV)
- Miscellaneous Over Temperature

- Voltage, Current, Power, Energy
- Voltage, Current, Battery Charging/Discharging
- Voltage, Frequency
- Voltage, Current, Frequency, Load %
- 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 G	rid/Charging, Battery Low, System Trip		
Remote Monitoring		GPRS based Modem (at extra cost)				
Ingress Protection		IP-20(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	347X275X385	348X295X415	448X275X580	498X300X680	



HIGH VOLTAGE 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 that is looking to adopt solar power, this heavy-duty inverter will drastically reduce electricity consumption and diesel-dependence. Along with a large LCD display and IoT-readiness, this inverter also offers faster Rol.





650X400X700

Applications













Petrol Pumps

Schools

Hotels Rural Micro Grids

Cold Storage

Hospita

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-120-10K0-1F	
A. MPPT CHARGER							
Type (Buck)	MPPT						
PV Nominal Capacity (Total KWp)	5	6	7.5	5	7.5	10	
Max PV Strings in parallel	4	5	6	4	6	6	
No of MPPT Channel/No. of Input			1	/1			
Max. Open Circuit PV Volts (Voc)			3	60			
MPPT Voltage Range (Vmp)		140-299		165-299			
Max Output Current (A)	50	60	75	40	60	80	
Peak Charging Efficiency			≥9	14%	ti .		
B. SOLAR INVERTER							
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	1		120		
Output Voltage/ Freq/Phase			230V(± 2%)	/50Hz/1P+N			
Peak Efficiency	≥88%						
Over Loads: 60 sec/ 30 sec/ 5 sec	101-110%/111-150% /151-200%						
Auto Bypass Feature			Pro	vided			
C. GRID CHARGER							
Grid Voltage Range			230V (+10	0% & -20%)			
Grid freq Range(Hz)			50Hz (+5	5% & -5%)	74		
Max Grid Import Power	7.5KVA	9KVA	11.3KVA	7.5KVA	11.3KVA	15KVA	
D. PROTECTIONS & DISPLAY PARAM	METERS						
		PROTECTIONS			LCD PARAMETERS		
PV Side	D		(1.40) ()	V-14 C			
Battery Side	Reverse Polarity, PV overload, Surge Protection (MOV) Voltage, Current, Power , Energy Voltage Current Polarity Chaptering (Pichage)					200	
Grid Side	Reverse Polarity, O/U Voltage, Current Limit Voltage, Current, Battery Charging/Discharging Voltage, Current, Battery Charging/Discharging Voltage, Current, Battery Charging/Discharging					18	
Load Side	O/U Voltage, O/U Frequency, Surge Protection (MOV) Voltage, Frequency Voltage, Frequency Voltage Current Frequency Load %						
Miscellaneous	 O/U Voltage, Overloads, Short Circuit, Surge Protection (MOV) Over Temperature Voltage, Current, Frequency, Load % Mode of Operation, Faults 						
	over remperature			Wode of operation,	duits		
E. MISCELLANEOUS	4	11 (A)		7.40	W. W.		
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 degrees (without Derating)						
Humidity	Max. 95% Non -Condensing						
Altitude	1000m above sea level						
Color Shade	Black						

650X375X625

^{**}Statcon Energiaa Pvt. Ltd. reserves the right to modify or withdraw any of the ratings or technical specifications



HIGH VOLTAGE 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 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 a large LCD display and IoT-readiness, this inverter also offers faster Rol.

Applications













Petrol Pumps

Schools

Hotels Rural Micro Grids

Cold Storage

Hospit

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			
A. MPPT CHARGER							
Type (Buck)		MPPT					
PV Nominal Capacity (Total KWp)	10	15	15	20			
Max PV Strings in parallel	6	9	5	6			
No of MPP1 Channel/No. of		1/	1				
Max. Open Circuit PV Volts (Voc)	3	360	7	00			
MPPT Voltage Range (Vmp)	169	5-299	365	365-560			
Max Output Current (A)	80	120	60	80			
Peak Charging Efficiency	≥94%						
B. SOLAR INVERTER							
Nominal Capacity	12.5KVA	15KVA	15KVA	20KVA			
Output Current (A)	43.5	52	52	70			
Battery Voltage (V)	1	120 240					
Output Voltage/ Freq/Phase	230V(± 2%)/50Hz/1P+N						
Peak Efficiency	≥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	230V (+10% & -20%)						
Grid freq Range(Hz)	50Hz (+5% & -5%)						
Max Grid Import Power	18.7KVA	22.5KVA	22.5KVA	30KVA			

D. PROTECTIONS & DISPLAY PARAMETERS

PROTECTIONS

LCD PARAMETERS

PV Side Battery Side Grid Side

Load Side

- Reverse Polarity, PV overload, Surge Protection (MOV)
- Reverse Polarity, O/U Voltage, Current Limit
- O/U Voltage, O/U Frequency , Surge Protection (MOV)
- Miscellaneous Over Temperature

- Voltage, Current, Power , Energy
- Voltage, Current, Battery Charging/Discharging
- Voltage, Frequency
- O/U Voltage, Overloads, Short Circuit , Surge Protection (MOV) Voltage, Current, Frequency, Load %
 - 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		GPRS based Modem (at extra cost)				
Ingress Protection		IP-20(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)	650X450X700	667.50X500X700	650X450X700	667.50X500X700		

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