



MICROMAK RENEWABLE ENERGY



-  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

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



Residence



Bank ATM



Shops



Clinics



Gyms



Farm House

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
A.MPPT CHARGER						
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. SOLAR INVERTER						
Nominal Capacity						
Output Current(A)	1KVA	1KVA	2KVA	3KVA	5KVA	6KVA
Battery Voltage(V)	3.5	3.5	7.0	10.4	17.4	20.8
Output Voltage/Freq/Phase	24	48				
Peak Efficiency	230V(±2%)/50Hz/1P+N					
Over Loads: 60sec/ 30sec/ 5sec	≥85%	≥88%				
Auto Bypass Feature	101-110%/111-150%/151-200%					
C. GRID CHARGER	Provided					
Grid Voltage Range (V)						
Grid Freq Range(Hz)	230V(+10%&-20%)					
Max Grid Import Power	50Hz(+5% & -5%)					
D. PROTECTIONS & DISPLAY PARMETERS	1.5KVA	1.5KVA	3KVA	4.5KVA	7.5KVA	9KVA
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, 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	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