



SOLAR OFF-GRID MPPT INVERTER

5KVA 48V



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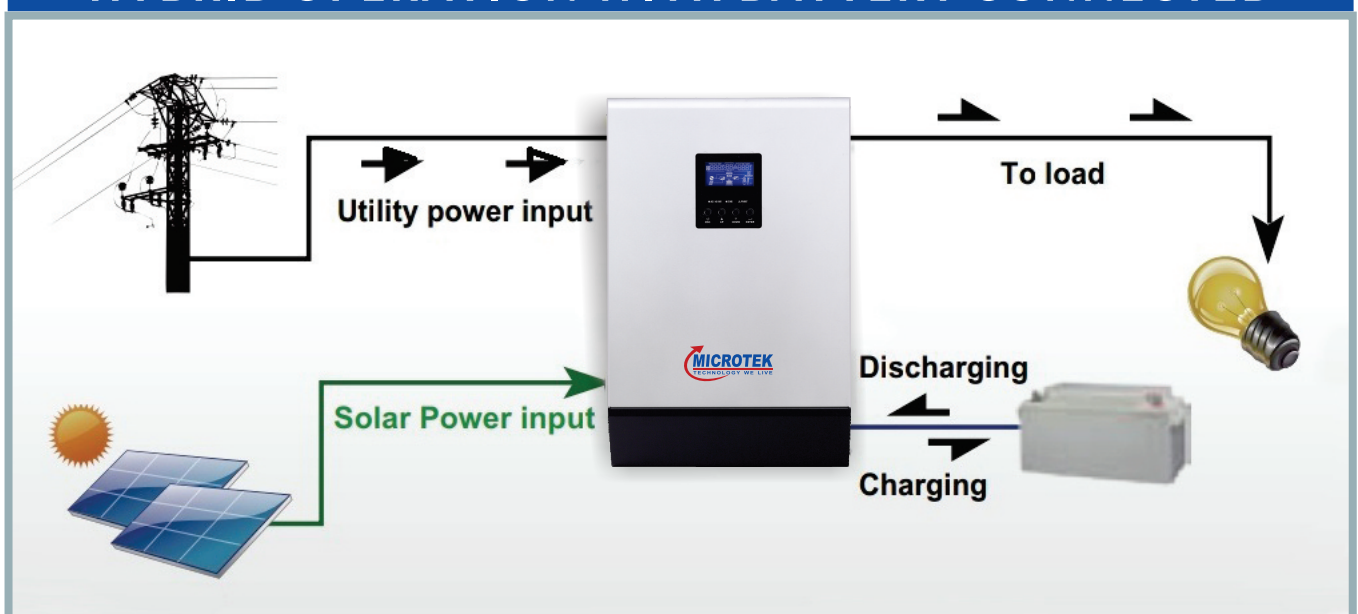
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SALIENT FEATURES:

- Pure Sine wave Solar Inverter.
- Selectable High Power Charging Current.
- Wide DC Input range.
- **Compatible with Lithium Ion Battery as well as Lead-Acid tubular batteries.**
- Selectable Input Voltage range for home appliances and personal computers.
- Configurable AC/Solar Input priority via LCD setting.
- Compatible to Mains Voltage or Generator Power.
- Auto restart while AC is recovering.
- Overload and Short Circuit Protection
- Smart Battery Charger design for optimized battery performance.
- Cold Start function.
- **Parallel operation with up to 9 units in Single-Phase and /or 3-Phase Inverter Operation upto 45KVA with 3-Inverters in individual Phases.**



HYBRID OPERATION WITH BATTERY CONNECTED



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TECHNICAL SPECIFICATIONS

MODEL		SOLAR OFF-GRID WALL MOUNT MPPT INVERTER 5KVA 48V
INPUT		
CAPACITY	5000VA / 5000W	
VOLTAGE RANGE	230V AC	
SELECTABLE VOLTAGE RANGE	170~280V AC (For Personal Computer) 90~280V AC (For Home Appliances)	
NOMINAL FREQUENCY / FREQ. RANGE	50Hz / 60Hz {Auto Sensing} / (40~65Hz) ±1Hz	
OUTPUT		
AC VOLTAGE REGULATION (INVERTER MODE)	230V AC ± 5% (Selectable 220V / 230V / 240VAC)	
OVERLOAD CAPACITY	5s@ ≥150% load; 10s@110%~150% load; 100ms @ ≥200% load	
SURGE CAPACITY	2 x Rated Power for 10 Seconds	
EFFICIENCY PEAK (INVERTER MODE)	90%	
TRANSFER TIME	For Personal Computers	10ms
	For Home Appliances	20ms
WAVE FORM	Pure Sine Wave	
BATTERY		
NOMINAL BATTERY VOLTAGE	48V DC	
MIN. RECOMMENDED BATTERY CAPACITY	200AH	
CHARGING VOLTAGE	54V DC (Configurable from LCD display as per Battery Type Applications)	
CHARGING PROFILE	CC-CV for Lithium-Ion Battery, Bulk & Float Charging Lead-Acid Battery	
BATTERY LOW CUT-OFF VOLTAGE	40VDC (Configurable from LCD display as per Battery Type)	
OVERCHARGE PROTECTION	63V DC	
SOLAR CHARGER AND AC CHARGER		
SOLAR CHARGER TYPE	MPPT	
MAXIMUM PV ARRAY POWER	4500W	
MPPT RANGE & OPERATING VOLTAGE	120~430V DC	
MAX. PV ARRAY OPEN CIRCUIT VOLTAGE	450V	
MAX. SOLAR CHARGE CURRENT	80A	
MAX. AC CHARGE CURRENT	80A @ Nominal Input Voltage (Adjustable 2A/10A/20A/30A/40A/50A/60A/70A/80A)	
DISPLAY		
FRONT DISPLAY	Comprehensive LCD & 3-LEDs	
MEASURABLE PARAMETERS ON LCD	AC Input Voltage, Input Frequency, PV Voltage, MPPT Charging current, MPPT Charging Power, Charging current, Charging Power, Battery Voltage, Output Voltage, Output Frequency, Load Percentage, Load in VA, Load in Watts, DC Discharging Current.	
PHYSICAL		
DIMENSIONS PRODUCT(DxWxH)	120x295x468(in mm)	
NET WEIGHT PRODUCT(KGS.)	11Kgs.	
ENVIRONMENT		
OPERATING HUMIDITY	5% to 95% Relative Humidity(Non-condensing)	
OPERATING/STORAGE TEMP.	Operating Temp.: -10°C to 50°C / Storage Temp.: -15°C to 60°C	
MANAGEMENT		
DRY CONTACT PORT	1-Dry Contact Port available for Output Signal to External trigger device	
IP RATING	IP-21	
COMMUNICATION INTERFACE	USB and RS-232	
ADVANCED COMMUNICATION OPTION FOR REMOTE MONITORING	Wifi / SNMP / Modbus (All Optional), With External COMM box Connect	

*Product specifications are subject to change without prior notice.