

High Frequency Transformer Solar Charger and Inverter integrated Machine

PROMIC-1000~5000HF

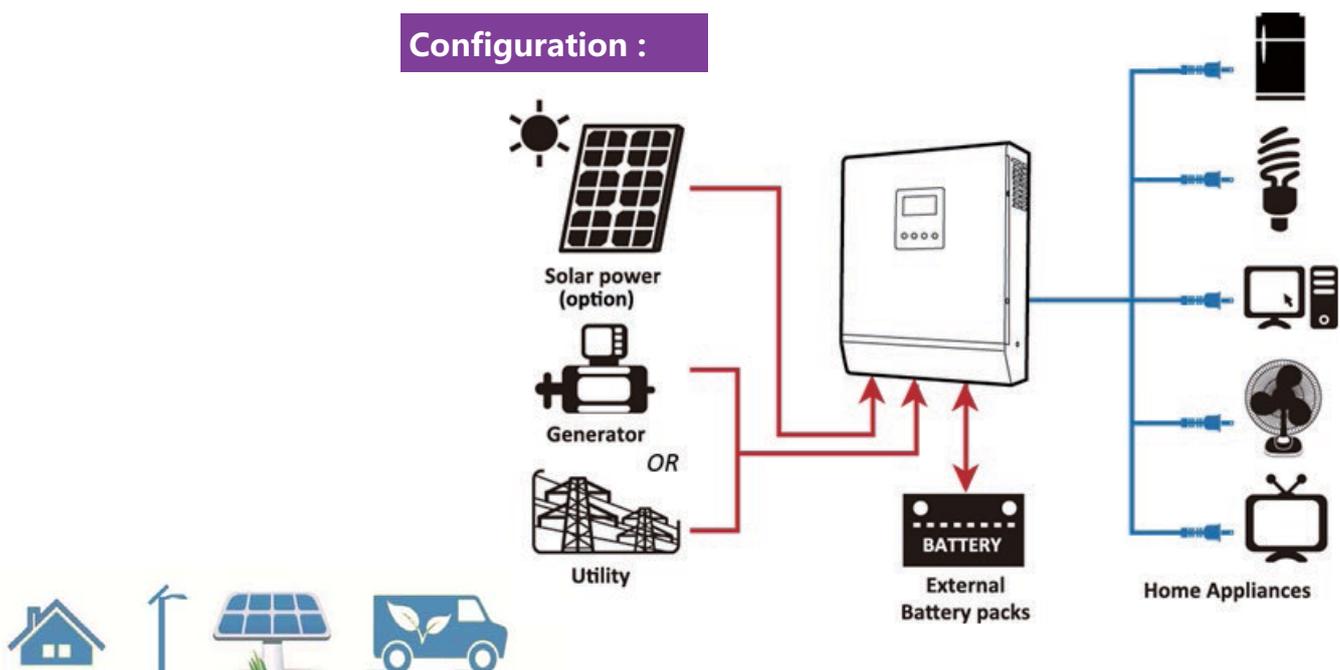
PROMIC-HF series products are equipped with MPPT solar charge controller to maximize and regulate DC power from the solar array for the charging the battery bank. High Frequency Transformer design provides reliable and high power conversion in compact size and galvanic isolation. Besides, it's worry-free to start up motor-type loads such as refrigerators, motors, pumps, compressors and laser printers as well as electronic loads like TV's, Computers, power tool and battery chargers. compared with traditional PWM solar charge controller, MPPT solar charge controller can maximize the power generation of panel. Combining with the extra AC utility/generator power input and battery system, it can use not only the solar power at day time but also the extra AC utility/generator power at night with the battery system, which bring users flexibility and efficiency in the use of electricity.



Features :

- Pure sine wave inverter
- Built-in MPPT solar charge controller
- Selectable input voltage range for home appliances and personal computers
- Selectable charging current based on applications
- 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 6 units only available for 4K/5K
- Optional Remote Control Panel available

Configuration :



PROJOY

Model: PROMIC-HF	PROMIC-1000HF-24	PROMIC-1000HF-48	PROMIC-2000HF-24	PROMIC-3000HF-24	PROMIC-3000HF-48	PROMIC-4000HF-48	PROMIC-5000HF-48
Rated Power	1000VA/ 800W	1000VA/ 1000W	2000VA/ 1600W	3000VA/ 2400W	3000VA/ 2400W	4000VA/ 3200W	5000VA/ 4000W
INPUT							
Voltage	120 VAC or 230 VAC		230 VAC				
Selectable Voltage Range	95-140 VAC or 170-280 VAC (For Personal Computers) 65-140 VAC or 90-280 VAC (For Home Appliances)		170-280 VAC (For Personal Computers) 90-280 VAC (For Home Appliances)				
Frequency Range	50 Hz/60 Hz (Auto sensing)						
OUTPUT							
AC Voltage Regulation (Batt. Mode)	110/120 VAC ± 5% (User selectable) or 230VAC ± 5%		230VAC ± 5%				
Surge Power	2000VA		4000VA	6000VA	8000VA	10000VA	
Efficiency (Peak)	90%-93%		93%				
Transfer Time	10 ms (For Personal Computers); 20 ms (For Home Appliances)						
Waveform	Pure sine wave						
BATTERY & AC CHARGER							
Battery Voltage	24 VDC	48 VDC	24 VDC	24 VDC	48 VDC	48 VDC	
Floating Charge Voltage	27 VDC	54 VDC	27 VDC	27 VDC	54 VDC	54 VDC	
Overcharge Protection	31 VDC	62 VDC	31 VDC	31 VDC	62 VDC	60 VDC	
SOLAR CHARGER							
Maximum PV Array Power	600 W	900 W	600 W	600 W	900 W	3000 W	
MPPT Range @ Operating Voltage	30VDC~ 66VDC	60VDC~ 88VDC	30VDC ~ 66VDC	30VDC ~ 66VDC	60VDC ~ 88VDC	60VDC ~ 115VDC	
Max PV Array Open Circuit Voltage	75VDC	102VDC	75VDC	75VDC	102VDC	145VDC	
Max Solar Charge Current	25A	18A	25A	25A	18A	60A	
Max AC Charge Current	10A or 10 A / 20 A*	10A or 10 A / 15A*	20A or 30 A	20A or 30 A	10A or 15A	60A	
Max Battery Charge Current*	25A	18A	30A	30A	18A	120A	
Max Efficiency	98%						
Standby Power Consumption	2 W						
PHYSICAL							
Dimension, W x H x D (mm)	272 x 355 x 128				295 x 540x 140		
Weight	6.8 kg		7.0 kg	7.4 kg		12.5 kg	13.5 kg
OPERATING ENVIRONMENT							
Relative humidity (non-condensing)	0% to 95%						
Operating Temperature	-20°C to 55°C						
Storage Temperature	-15°C to 60°C						
*There are charging current selection only available for 230VAC system							
*Battery Charge Current=Solar Charge Current+ AC Charge Current							
Product specifications are subject to change without further notice							



Model: PROMIC-HF-AMP	PROMIC-2000HF-24 AMP	PROMIC-2000HF-48 AMP	PROMIC-3000HF-24 AMP	PROMIC-3000HF-48 AMP
Rated Power	2000VA/1600W	2000VA/1600W	3000VA/2400W	3000VA/2400W
INPUT				
Voltage	120 VAC or 230 VAC			
Selectable Voltage Range	95-140 VAC or 170-280 VAC (For Personal Computers) 65-140 VAC or 90-280 VAC (For Home Appliances)			
Frequency Range	50 Hz/60 Hz (Auto sensing)			
OUTPUT				
AC Voltage Regulation (Batt. Mode)	110/120 VAC ± 5% (User selectable) or 230VAC ± 5%			
Surge Power	4000VA		6000VA	
Efficiency (Peak)	90% - 93%			
Transfer Time	10 ms (For Personal Computers) ; 20 ms (For Home Appliances)			
Waveform	Pure sine wave			
BATTERY & AC CHARGER				
Battery Voltage	24 VDC	48 VDC	24 VDC	48 VDC
Floating Charge Voltage	27 VDC	54 VDC	27 VDC	54 VDC
Overcharge Protection	31 VDC	62 VDC	31 VDC	62 VDC
SOLAR CHARGER				
Maximum PV Array Power	1500 W	3000 W	1500 W	3000 W
MPPT Range @ Operating Voltage	30~ 115 VDC or 60 ~ 115 VDC	60 ~ 115 VDC	30~ 115 VDC or 60 ~ 115 VDC	60 ~ 115 VDC
Max PV Array Open Circuit Voltage	145 VDC			
Max Solar Charge Current	60A			
Max AC Charge Current	20 A or 20 A / 30 A*	10 A or 10 A / 15 A*	20 A or 20 A / 30 A*	10 A or 10 A / 15 A*
Max Battery Charge Current*	60A			
Max Efficiency	98%			
Standby Power Consumption	2 W			
PHYSICAL				
Dimension, D x W x H (mm)	140 x 295 x 479			
Net Weight	11.5kg			
OPERATING ENVIRONMENT				
Humidity	0% to 95%			
Operating Temperature	-20°C - 55°C			
Storage Temperature	-15°C - 60°C			
*There are charging current selection only available for 230VAC system				
*Battery Charge Current=Solar Charge Current+ AC Charge Current				
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