



Beijing Multifit Electrical Technology Co.,Ltd
北京众能力电科技有限公司

Hybrid Inverter with Mppt Controller-Pro



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MULTIFIT

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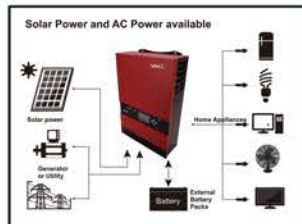
Product Snapshot

Model :3KW&5KW
 Nominal Voltage :220/230VAC
 Nominal Frequency :50/60HZ
 Output Power Factor :1.0

Key Features

- Output Power factor 1.0
- Wide PV input range up to 500VDC
- Batteryless support, work without battery daytime
- Pure sine wave inverter
- Selectable high power charging current
- Selectable AC input voltage range for home appliances and personal computers
- Configurable AC/Solar input priority via LCD setting
- Compatible with mains voltage or generator power
- Auto restart while AC is recovering
- overload and short circuit protection
- Smart battery charge design for optimized battery performance
- Cold start function

Operation with Battery Connected



Operation without Battery Connected



This is a multi-function inverter/charger. Its comprehensive LCD display offers user-configurable and easy-accessible button operation such as battery charging current, AC/solar charger priority, and acceptable input voltage based on different applications.

Technical Data SuninV HF-Pro

MODEL	SuinV HF-Pro 3KW	SuinV HF-Pro 5KW	
Rated Power	3KVA/3KW	5KVA/5KW	
PV INPUT (DC)			
Max. PV Array Power	4000 W		
Nominal PV Voltage	240VDC		
PV Array MPPT Voltage Range	120~450VDC		
Max. PV Array Open Circuit Voltage	500VDC		
Max. Charging Current (AC + solar)	80Amp		
AC INPUT (AC)			
Nominal Input Voltage	230 VAC		
Low Loss Voltage	170 VAC±7V(UPS); 90 VAC±7V(Appliances)		
Low Loss Return Voltage	180 VAC±7V(UPS); 100 VAC±7V(Appliances)		
High Loss Voltage	280 VAC±7V		
High Loss Return Voltage	270 VAC±7V		
Max. AC Input Voltage	300 VAC		
Nominal Input Frequency	50Hz/60Hz (Auto detection)		
Transfer Time	10ms typical(UPS); 20ms typical(Appliances)		
BATTERY MODE OUTPUT (AC)			
Nominal Output Power	3KVA/3KW	5KVA/5KW	
Surge Power	6000 VA	10000 VA	
Nominal Output Voltage	230 VAC±5%		
Output Waveform	Pure Sinewave		
Efficiency (DC to AC)(Peak)	93%		
UTILITY CHARGER			
Nominal DC Voltage	24VDC	48VDC	
Maximum Charging Current	60Amp		
Bulk Charging Voltage	Flooded Battery	29.2VDC	58.4VDC
	AGM/Gel Battery	28.2VDC	56.4VDC
Floating Charging Voltage	27VDC	54VDC	
OverCharge Protection	33VDC	63VDC	
GENERAL			
PHYSICAL			
Dimension , D× W × H (mm)	100 × 300 × 440		
Net Weight (kgs)	9	10	
Communication Port	RS-232/USB		
ENVIRONMENT			
Humidity	5 ~ 95% RH (Non condensing)		
Operating Temperature	-10 to 55°C		
Altitude	0 ~ 1000 m		

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