High Frequency On Grid Solar Inverter

PH5000 Series (2.5-6KW)

Features

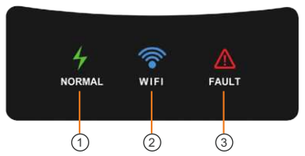
- High Frequency On Grid Solar Inverter
- Pure sine wave output
- Rate power: 2.5-6KW
- MPPT efficiency up to 99.50%
- Multiple communications: USB,WIFI etc
- Monitoring inverters freely via mobile phonese APP
- Fanless low-noise design
- IP65 water-proof and dust-proof

Introduction

PH5000 series PV inverters take full account of the needs of end customers, with excellent performance at the same time, use LED as inverter status display, effectively improve product life. Using DSP digital control,could afford wide grid voltage range, have a full range of protection features; to maximize the benefits at the same time, greatly enhance the reliability of the product.

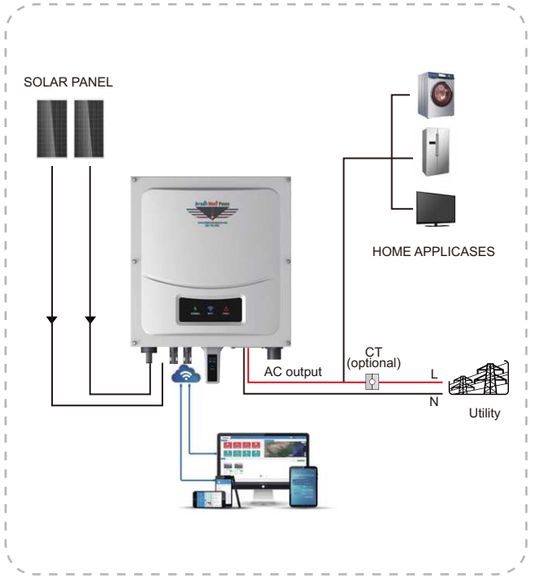
Back panel printing description

Green LED	Continuous light	Normal status
	Flicker	Waiting status
Blue LED	Flicker	Wifi normal communication
Red LED	Continuous light	Fault status
	Flicker	Program of procedure or give an alarm



1. Operation normal (Green)
2. WIFI communication (Blue)
3. Error display (Red)
4. DC switch
5. PV input
6. WIFI connector
7. PC USB connector
8. AC output

Solar system connection



AFFINITY MUST POWER
www.affinitymustpower.com
082 755 3951

Specification

MODEL		PH50-2500	PH50-3000	PH50-3600M	PH50-4200M	PH50-4600M	PH50-5000M	PH50-6000M
RATED POWER(W)		2500	3000	3600	4200	4600	5000	6000
PV INPUT(DC)	Maximum recommended DC power(W)	2875	3450	4100	4800	5300	5750	7000
	Nominal DC operating voltage(V)	360						
	Maximum DC voltage(V)	550						
	Start voltage(V)	100						
	MPPT voltage range(V)	80~550						
	Maximum input current(A)	11	11	11\11	11\11	11\11	11\11	11\11
	No.of MPP tracker	1		2				
	Strings per MPP tracker	1						
GRID OUTPUT(AC)	Nominal AC output power(W)	2500	3000	3600	4200	4600	5000	6000
	Maximum AC output power(VA)	2500	3000	3600	4200	4600	5000	6000
	Nominal output voltage(V);range(V)	220 \ 230 \ 240;180-280						
	AC grid frequency(Hz);range(Hz)	50\60;45~55\55-65						
	Nominal output current(A)	10.9	13	15.7	18.3	20.0	21.8	26.1
	Maximum output current(A)	11.4	13.7	16.4	19.1	21.0	22.8	27.3
	Total harmonic distortion i(THDi)	<3%						
	Power factor at rated power	1						
	Displacement power factor	0.8leading ~ 0.8lagging						
	AC connection	Single phase						
EFFICIENCY	Maximum efficiency	97.2%	97.2%	97.4%	97.4%	97.4%	97.4%	97.4%
	Euro-efficiency	96.8%	96.8%	97.0%	97.0%	97.0%	97.0%	97.0%
	MPPT efficiency	99.5%						
	Self-Consumption night(W)	<1						
PROTECTION DEVICES	DC reverse polarity protection	Yes						
	DC switch rating for each MPPT	Yes(opt.)						
	Output over current protection	Yes						
	Output overvoltage protection-varistor	Yes						
	Ground fault monitoring	Yes						
	Grid monitoring	Yes						
	Integrated all-pole sensitive leakage current	Yes						
PHYSICAL	Dimension(W/H/D)(mm)	262*368*155	262*368*155	355*412*153	355*412*153	355*412*173	355*412*173	355*412*201
	Net weight (kg)	10	10	13.5	13.5	14.5	14.5	16.5
INTERFACE	DC connection	H4/MC4						
	AC connection	Connector						
	Display	LED						
	Communication interfaces	Wi-Fi \ USB \ GPRS						
ENVIRONMENT	Ingress protection rating	IP65						
	Humidity	0~95% RH (No condensing)						
	Operating temperature range	-25˚C ~+60˚C With derating above 45˚C						
	Cooling concept	Natural						
	Noise emission(typical)[dB]	≤25						
	Altitude	<4000m						
OTHERS	Topology	transformerless						
	Warranty	Standard 5years/10 years(opt.)						
	Certificatesand approvals	CE/IEC62109	CE/IEC62109	CE / IEC62109 / CQC				