PTT solar
Power tomorrow, Today



ON / OFF GRID INDOOR HYBRID INVERTER

PIHL6KS-N / PIHL10KS-N

Easy For Installation
• The product has a compact and robust design, Easy installation for contractor or home owner.

Smart BMS
• The inverter supports BMS communication.

Dual Communication Ports
• Dual communication ports for Battery communication and Wifi communication.

Smart battery charge design
• Smart battery charge design to optimize battery life.

Intelligent working mode
• This inverter has a variety of intelligent ways of working.

Built-in anti-dust kit
• Built-in anti-dust kit for harsh environment.

Model	PIHL6KS-N	PIHL10KS-N
Phase	1-phase	
Maximum Py Input Power	6500W	5400W+5400W
Rated Output Power	6200W/6200VA	10200W/10200VA
Maximum Solar Charging Current	120A	160A
GRID-TIE OPERATION		
PV INPUT(DC)		
NominalDC Voltage/Maximum DC Voltage	360/500VDC	
Start-up Voltage/ Initial Feeding Voltage	60VDC/90VDC	90VDC/120VDC
MPPT Voltage Range	60~450VDC	90~450VDC
Maximum input Current	1/22A	2/18A
GRID OUTPUT(AC)		
Nominal Output Voltage	220/230/240VAC	
Output Voltage Range	195~253VAC	
Nominal Output Current	27.0A	44.3A
Power Factor	＞0.99	
EFFICIENCY		
Maximum Conversion Efficiency(DC/AC)	98%	
TWO LOAD OUTPUT POWER		
Full Load	6200W	10200W
Maxium Main Load	6200W	10200W
Maxium Second Load(battery mode)	2067W	3400W
Maxium Load Cut Off Voltage	52VDC	
Maxium Load Return Voltage	54VDC	
OFF-GRID OPERATION		
AC INPUT		
AC Start-up Voltage/Auto Restart Voltage	120-140VDC/180VAC	
Acceptable Input Voltage Range	90-280VDC or 170-280VAC	
Frequency Range	59~61±1HZ	
Maximum AC Input Current	36.4A	60A
PV INPUT(DC)		
Nominal DC Voltage/Maximum DC Voltage	360/500VDC	
MPPT Voltage Range	60~450VDC	90~450VDC
Maximum Input Current	1/22A	2/18A
BATTERY MODE OUTPUT(AC)		
Nominal Output Voltage	220/230/240VAC	
Output Waveform	Pure sine ware	
Efficiency(DC to AC)	94%	
BATTERY & CHARGER		
Nominal DC Voltage	48VDC	
Maximum Solar Charging Current	120A	160A
Maximum AC Charging Current	100A	140A
Maximum Solar+AC Charging Current	120A	160A
HYBRID OPERATION		
PV INPUT(DC)		
Nominal DC Voltage/Maximum DC Voltage	360/500VDC	
Start-up Voltage/Initial Feeding Voltage	90VDC/120VDC	
MPPT Voltage Range	60~450VDC	90~450VDC
Maximum Input Current	1/22A	2/18A
GRID OUTPUT(AC)		
Nominal Output Voltage	220/230/240VAC	
Output Voltage Range	195~253VAC	
Nominal Output Current	27.0A	44.3A
AC INPUT		
AC Start-up Voltage/Auto Restart Voltage	120-140VAC/180VAC	
Acceptable Input Voltage Range	90-280VAC or 170-280VAC	
Maximum AC Input Current	36.4A	60A
Maximum AC Charging Current	100A	140A
GENERAL		
PHYSICAL		
Dimension,D*W*H(mm)	420*350*110	530*390*130
Cartoon Dimension,D*W*H(mm)	500*415*180	618*463*205
Net Weight (kgs)	8.9	14.7
Gross Weight(kgs)	10.0	16.2
INTERACE		
Communication Port	RS232/RS485/WIFIGPRS/LITHIUM BATTERY	
ENVIRONMENT		
Humidity	5% to 95% Relative Humidity(Non~condensing)	
Operating Temperature	-10℃~50℃	
STANDARD		
Compliance Safety	CE	

Testing conditions are based on temperature 25°C at the beginning of life.

Product specifications are subject to change without further notice.