



IDEALPLUSING®

PRODUCT
SELECTION
GUIDE

IPS-PI

Pure Sine Wave Inverter Catalog

GUANGZHOU **IDEALPLUSING** INFORMATION TECHNOLOGY CO., LTD
www.idealplusing.com

COMPANY PROFILE

We IDEALPLUSING are proud to be a solution provider rather than a pure manufacturer.

We have established close cooperation with many power supply manufacturers, with a special focus on Chinese manufacturers with less sales or less experience in overseas markets.

We IDEALPLUSING not only provide products, but also strive to provide customers with suitable power supply solutions and quotations, and help customers evaluate and choose the most suitable solution.

Our main markets include Eastern Europe, Southeast Asia and East Asia. We now have 47 supply chain partners, and our customer types include retailers, engineers, wholesalers, brand companies, private users and manufacturers.



FACTORY

Production Area



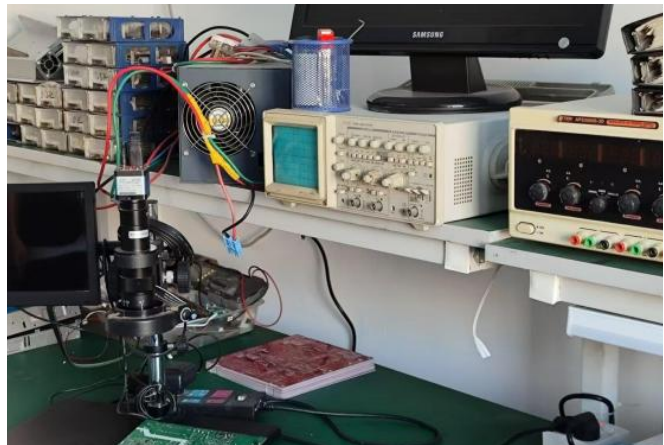
The production area is the core area for product manufacturing, with concentrated equipment and professional personnel. It guarantees production efficiency and product quality, which is crucial to the development of the enterprise.



Aging Area



The product testing area can accelerate the testing of product performance and data, discover potential quality problems in advance, improve product reliability, and ensure that product performance meets requirements.



Packaging Area



The packaging area is the final link in product production, where products are packaged to protect them and facilitate transportation and storage.



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Thank you very much for choosing IDEALPLUSING!

This catalog will provide you with detailed selection methods to help users choose suitable adjustable power products according to their needs.

300W Pure Sine Wave Inverter



MODEL		300W				
OUTPUT	Continual Power	300W				
	Surge power	600W				
	Waveform	Pure sine wave				
	Frequency	50HZ or 60HZ				
	AC Regulation	5%				
	AC voltage	110VAC 120VAC or 220VAC 230VAC 240VAC				
INPUT	DC Voltage	12VDC	24VDC	48VDC	60VDC	72VDC
	Voltage range	10~15VDC	20~30VDC	40~60VDC	50~75VDC	60~90VDC
	No Load Current Draw	<0.65				
	Efficiency	>95%				
	DC Connector	Cables with Clips OR Car Adapter				
PROTECTING	Low Voltage Alarm	10±0.5V	20V±0.5V	40±0.5V	50±0.5V	60±0.5V
	Low Voltage Shut down	15±0.5V	30V±0.5V	60±0.5V	75±0.5V	90±0.5V
	Over Load	Shut Off Output				
	Over Voltage Shut down	16.0V	31.0V	40.0V	50.0V	60.0V
	Over Thermal	Shut Off Output Automatically				
	Fuses	Short Circuit				
ENVIRONMENT	Storage Temperature	Between -30°C and +70°C				
	Working Temperature	Between -10°C and +50°C				
	Working Humidity	20% ~ 90%RH non-condensing				
OTHERS	Start	Soft start				
	Cooling way	Cooling Fan				
	Total Harmonic Distortion	THD<4%				
	Size(MM)	L181*W110*H56(MM)				
	NW/GW	1.2KG/1.6KG				

600W Pure Sine Wave Inverter



MODEL		600W				
OUTPUT	Continual Power	600W				
	Surge power	1200W				
	Waveform	Pure sine wave				
	Frequency	50HZ or 60HZ				
	AC Regulation	5%				
	AC voltage	110VAC or 220VAC				
INPUT	DC Voltage	12VDC	24VDC	48VDC	60VDC	72VDC
	Voltage range	10~15VDC	20~30VDC	40~60VDC	50~75VDC	60~90VDC
	No Load Current Draw	<0.65				
	Efficiency	>95%				
	DC Connector	Cables with Clips OR Car Adapter				
PROTECTING	Low Voltage Alarm	10±0.5V	20V±0.5V	40±0.5V	50±0.5V	60±0.5V
	Low Voltage Shut down	15±0.5V	30V±0.5V	60±0.5V	75±0.5V	90±0.5V
	Over Load	Shut Off Output				
	Over Voltage Shut down	16.0V	31.0V	40.0V	50.0V	60.0V
	Over Thermal	Shut Off Output Automatically				
	Fuses	Short Circuit				
ENVIRONMENT	Storage Temperature	Between -30°C and +70°C				
	Working Temperature	Between -10°C and +50°C				
	Working Humidity	20% ~ 90%RH non-condensing				
OTHERS	Start	Soft start				
	Cooling way	Cooling Fan				
	Total Harmonic Distortion	THD<4%				
	Size(MM)	L218*W173*H76(MM)				
	NW/GW	2.1KG/2.5KG				

1000W Pure Sine Wave Inverter



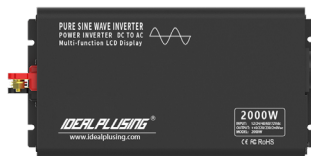
MODEL		1000W				
OUTPUT	Continual Power	1000W				
	Surge power	2000W				
	Waveform	Pure sine wave				
	Frequency	50HZ or 60HZ				
	AC Regulation	5%				
	AC voltage	110VAC or 220VAC				
INPUT	DC Voltage	12VDC	24VDC	48VDC	60VDC	72VDC
	Voltage range	10~15VDC	20~30VDC	40~60VDC	50~75VDC	60~90VDC
	No Load Current Draw	<0.65				
	Efficiency	>95%				
	DC Connector	Cables with Clips OR Car Adapter				
PROTECTING	Low Voltage Alarm	10±0.5V	20V±0.5V	40±0.5V	50±0.5V	60±0.5V
	Low Voltage Shut down	15±0.5V	30V±0.5V	60±0.5V	75±0.5V	90±0.5V
	Over Load	Shut Off Output				
	Over Voltage Shut down	16.0V	31.0V	40.0V	50.0V	60.0V
	Over Thermal	Shut Off Output Automatically				
	Fuses	Short Circuit				
ENVIRONMENT	Storage Temperature	Between -30°C and +70°C				
	Working Temperature	Between -10°C and +50°C				
	Working Humidity	20% ~ 90%RH non-condensing				
OTHERS	Start	Soft start				
	Cooling way	Cooling Fan				
	Total Harmonic Distortion	THD<4%				
	Size(MM)	L310*W173*H76(MM)				
	NW/GW	3.4KG/4.1KG				

1500W Pure Sine Wave Inverter



MODEL		1500W				
OUTPUT	Continual Power	1500W				
	Surge power	3000W				
	Waveform	Pure sine wave				
	Frequency	50HZ or 60HZ				
	AC Regulation	5%				
	AC voltage	110VAC or 220VAC				
INPUT	DC Voltage	12VDC	24VDC	48VDC	60VDC	72VDC
	Voltage range	10~15VDC	20~30VDC	40~60VDC	50~75VDC	60~90VDC
	No Load Current Draw	<0.65				
	Efficiency	>95%				
	DC Connector	Cables with Clips OR Car Adapter				
PROTECTING	Low Voltage Alarm	10±0.5V	20V±0.5V	40±0.5V	50±0.5V	60±0.5V
	Low Voltage Shut down	15±0.5V	30V±0.5V	60±0.5V	75±0.5V	90±0.5V
	Over Load	Shut Off Output				
	Over Voltage Shut down	16.0V	31.0V	40.0V	50.0V	60.0V
	Over Thermal	Shut Off Output Automatically				
	Fuses	Short Circuit				
ENVIRONMENT	Storage Temperature	Between -30°C and +70°C				
	Working Temperature	Between -10°C and +50°C				
	Working Humidity	20% ~ 90%RH non-condensing				
OTHERS	Start	Soft start				
	Cooling way	Cooling Fan				
	Total Harmonic Distortion	THD<4%				
	Size(MM)	L360*W173*H76(MM)				
	NW/GW	3.6KG/4.4KG				

2000W Pure Sine Wave Inverter



MODEL		2000W				
OUTPUT	Continual Power	2000W				
	Surge power	4000W				
	Waveform	Pure sine wave				
	Frequency	50HZ or 60HZ				
	AC Regulation	5%				
	AC voltage	110VAC or 220VAC				
INPUT	DC Voltage	12VDC	24VDC	48VDC	60VDC	72VDC
	Voltage range	10~15VDC	20~30VDC	40~60VDC	50~75VDC	60~90VDC
	No Load Current Draw	<0.65				
	Efficiency	>95%				
	DC Connector	Cables with Clips OR Car Adapter				
PROTECTING	Low Voltage Alarm	10±0.5V	20V±0.5V	40±0.5V	50±0.5V	60±0.5V
	Low Voltage Shut down	15±0.5V	30V±0.5V	60±0.5V	75±0.5V	90±0.5V
	Over Load	Shut Off Output				
	Over Voltage Shut down	16.0V	31.0V	40.0V	50.0V	60.0V
	Over Thermal	Shut Off Output Automatically				
	Fuses	Short Circuit				
ENVIRONMENT	Storage Temperature	Between -30°C and +70°C				
	Working Temperature	Between -10°C and +50°C				
	Working Humidity	20% ~ 90%RH non-condensing				
OTHERS	Start	Soft start				
	Cooling way	Cooling Fan				
	Total Harmonic Distortion	THD<4%				
	Size(MM)	L360*W173*H76(MM)				
	NW/GW	4.0KG/6.0KG				

2500W Pure Sine Wave Inverter



MODEL		2500W				
OUTPUT	Continual Power	2500W				
	Surge power	5000W				
	Waveform	Pure sine wave				
	Frequency	50HZ or 60HZ				
	AC Regulation	5%				
	AC voltage	110VAC or 220VAC				
INPUT	DC Voltage	12VDC	24VDC	48VDC	60VDC	72VDC
	Voltage range	10~15VDC	20~30VDC	40~60VDC	50~75VDC	60~90VDC
	No Load Current Draw	<0.65				
	Efficiency	>95%				
	DC Connector	Cables with Clips OR Car Adapter				
PROTECTING	Low Voltage Alarm	10±0.5V	20V±0.5V	40±0.5V	50±0.5V	60±0.5V
	Low Voltage Shut down	15±0.5V	30V±0.5V	60±0.5V	75±0.5V	90±0.5V
	Over Load	Shut Off Output				
	Over Voltage Shut down	16.0V	31.0V	40.0V	50.0V	60.0V
	Over Thermal	Shut Off Output Automatically				
	Fuses	Short Circuit				
ENVIRONMENT	Storage Temperature	Between -30°C and +70°C				
	Working Temperature	Between -10°C and +50°C				
	Working Humidity	20% ~ 90%RH non-condensing				
OTHERS	Start	Soft start				
	Cooling way	Cooling Fan				
	Total Harmonic Distortion	THD<4%				
	Size(MM)	L360*W173*H76(MM)				
	NW/GW	4.0KG/6.0KG				

3000W Pure Sine Wave Inverter



MODEL		3000W				
OUTPUT	Continual Power	3000W				
	Surge power	6000W				
	Waveform	Pure sine wave				
	Frequency	50HZ or 60HZ				
	AC Regulation	5%				
	AC voltage	110VAC or 220VAC				
INPUT	DC Voltage	12VDC	24VDC	48VDC	60VDC	72VDC
	Voltage range	10~15VDC	20~30VDC	40~60VDC	50~75VDC	60~90VDC
	No Load Current Draw	<0.65				
	Efficiency	>95%				
	DC Connector	Cables with Clips OR Car Adapter				
PROTECTING	Low Voltage Alarm	10±0.5V	20V±0.5V	40±0.5V	50±0.5V	60±0.5V
	Low Voltage Shut down	15±0.5V	30V±0.5V	60±0.5V	75±0.5V	90±0.5V
	Over Load	Shut Off Output				
	Over Voltage Shut down	16.0V	31.0V	40.0V	50.0V	60.0V
	Over Thermal	Shut Off Output Automatically				
	Fuses	Short Circuit				
ENVIRONMENT	Storage Temperature	Between -30°C and +70°C				
	Working Temperature	Between -10°C and +50°C				
	Working Humidity	20% ~ 90% RH non-condensing				
OTHERS	Start	Soft start				
	Cooling way	Cooling Fan				
	Total Harmonic Distortion	THD<4%				
	Size(MM)	L400*W242*H88(MM)				
	NW/GW	8.0KG/10.0KG				

3500W Pure Sine Wave Inverter



MODEL		3500W				
OUTPUT	Continual Power	3500W				
	Surge power	7000W				
	Waveform	Pure sine wave				
	Frequency	50HZ or 60HZ				
	AC Regulation	5%				
	AC voltage	110VAC or 220VAC				
INPUT	DC Voltage	12VDC	24VDC	48VDC	60VDC	72VDC
	Voltage range	10~15VDC	20~30VDC	40~60VDC	50~75VDC	60~90VDC
	No Load Current Draw	<0.65				
	Efficiency	>95%				
	DC Connector	Cables with Clips OR Car Adapter				
PROTECTING	Low Voltage Alarm	10±0.5V	20V±0.5V	40±0.5V	50±0.5V	60±0.5V
	Low Voltage Shut down	15±0.5V	30V±0.5V	60±0.5V	75±0.5V	90±0.5V
	Over Load	Shut Off Output				
	Over Voltage Shut down	16.0V	31.0V	40.0V	50.0V	60.0V
	Over Thermal	Shut Off Output Automatically				
	Fuses	Short Circuit				
ENVIRONMENT	Storage Temperature	Between -30°C and +70°C				
	Working Temperature	Between -10°C and +50°C				
	Working Humidity	20% ~ 90% RH non-condensing				
OTHERS	Start	Soft start				
	Cooling way	Cooling Fan				
	Total Harmonic Distortion	THD<4%				
	Size(MM)	L400*W242*H88(MM)				
	NW/GW	8.0KG/10.0KG				

4000W Pure Sine Wave Inverter



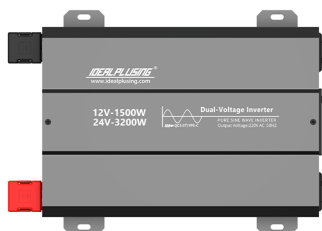
MODEL		4000W				
OUTPUT	Continual Power	4000W				
	Surge power	8000W				
	Waveform	Pure sine wave				
	Frequency	50HZ or 60HZ				
	AC Regulation	5%				
	AC voltage	110VAC or 220VAC				
INPUT	DC Voltage	12VDC	24VDC	48VDC	60VDC	72VDC
	Voltage range	10~15VDC	20~30VDC	40~60VDC	50~75VDC	60~90VDC
	No Load Current Draw	<0.65				
	Efficiency	>95%				
	DC Connector	Cables with Clips OR Car Adapter				
PROTECTING	Low Voltage Alarm	10±0.5V	20V±0.5V	40±0.5V	50±0.5V	60±0.5V
	Low Voltage Shut down	15±0.5V	30V±0.5V	60±0.5V	75±0.5V	90±0.5V
	Over Load	Shut Off Output				
	Over Voltage Shut down	16.0V	31.0V	40.0V	50.0V	60.0V
	Over Thermal	Shut Off Output Automatically				
	Fuses	Short Circuit				
ENVIRONMENT	Storage Temperature	Between -30°C and +70°C				
	Working Temperature	Between -10°C and +50°C				
	Working Humidity	20% ~ 90% RH non-condensing				
OTHERS	Start	Soft start				
	Cooling way	Cooling Fan				
	Total Harmonic Distortion	THD<4%				
	Size(MM)	L400*W242*H88(MM)				
	NW/GW	8.5KG/12KG				

5000W Pure Sine Wave Inverter



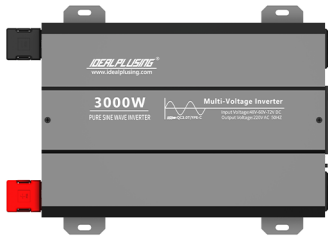
MODEL		5000W				
OUTPUT	Continual Power	5000W				
	Surge power	10000W				
	Waveform	Pure sine wave				
	Frequency	d50HZ or 60HZ				
	AC Regulation	5%				
	AC voltage	110VAC or 220VAC				
INPUT	DC Voltage	12VDC	24VDC	48VDC	60VDC	72VDC
	Voltage range	10~15VDC	20~30VDC	40~60VDC	50~75VDC	60~90VDC
	No Load Current Draw	<0.65				
	Efficiency	>95%				
	DC Connector	Cables with Clips OR Car Adapter				
PROTECTING	Low Voltage Alarm	10±0.5V	20V±0.5V	40±0.5V	50±0.5V	60±0.5V
	Low Voltage Shut down	15±0.5V	30V±0.5V	60±0.5V	75±0.5V	90±0.5V
	Over Load	Shut Off Output				
	Over Voltage Shut down	16.0V	31.0V	40.0V	50.0V	60.0V
	Over Thermal	Shut Off Output Automatically				
	Fuses	Short Circuit				
ENVIRONMENT	Storage Temperature	Between -30°C and +70°C				
	Working Temperature	Between -10°C and +50°C				
	Working Humidity	20% ~ 90% RH non-condensing				
OTHERS	Start	Soft start				
	Cooling way	Cooling Fan				
	Total Harmonic Distortion	THD<4%				
	Size(MM)	L420*W242*H88(MM)				
	NW/GW	12KG/14KG				

12V/24V Dual-Voltage Pure Sine Wave Inverter



Input Voltage Mode		12V/24V Intelligent Automatic Switching					
Model		IPS-PI1215+2432		IPS-PI1212+2423		IPS-PI1220+2422	
Input Voltage		DC12V/24V		DC12V/24V		DC12V/24V	
Output	Rated Power	1500W	3200W	1200W	2300W	2000W	2200W
	Peak Power	3000W	6400W	2400W	4600W	4000W	4400W
	Output Voltage	220V±10%					
	Output Voltage Accuracy	±10V					
	Conversion Efficiency	≥ 90%					
Input	Voltage Range	12V (10V-15.7V)			24V (20V-31.5V)		
	Waste	<10W	<10W	<10W	<10W	<10W	<10W
	USB Charging	Type-C, USB 5V 2.1A					
Protection Function	Low Pressure Alarm	10.5V±0.5V			21.0V±0.5V		
	Low Voltage Protection	10V±0.5V			20V±0.5V		
	High Voltage Protection	16V±0.5V			32V±0.5V		
	Overload Protection	≥ 1600W	≥ 3100W	≥ 1300W	≥ 2400W	≥ 2100W	≥ 2400W
	Low Voltage Automatic recovery	13.5V			25.3V		
	High Temperature protection	80° C					
	Short Circuit Protection	have					
LCD Display	Input voltage, output voltage, power, charge, frequency, waveform, alarm indicators						
Work Environment	Temperature	-20° C - 40° C					
	Humidity	≤ 90%					
Other	Weight	3.0kg		2.72kg		3.0kg	
	Size	327.4*231.6*87.3mm					

48V-60V-72V Multi-Voltage Pure Sine Wave Inverter



Input Voltage Mode		48V/60V/72V Manual Switching Mode		
Model		IPS-PI486072-1.5KW	IPS-PI486072-2KW	IPS-PI486072-3KW
Output	Rated Power	1500W	2000W	3000W
	Peak Power	3000W	4000W	6000W
	Output Voltage	220V±10%		
	Conversion Efficiency	≥ 90%		
Input	Input Voltage	48V-60V-72V Universal		
	Voltage Range	42V-64V / 52V-80V / 63V-96V		
	No-load Current	0.24A		
	No-load power consumption	<15W	<15W	<15W
	USB Charging	Type-C, USB 5V 2.1A		
Protection Function	Low Pressure Alarm	42.5V	53V	63.5V
	Low Voltage Protection	42V	52.5V	63V
	High Voltage Protection	64V	80V	96V
	Overload Protection	1600W	2100W	3200W
	Low Voltage Automatic Recovery	51V	64.5V	77.5V
	Over Temperature Protection	80° C	80° C	80° C
	Short Circuit Protection	Yes	Yes	Yes
	Reverse Polarity Protection	Yes	Yes	Yes
E2	Buzzer	Continuous beep		
LCD Display	Input voltage, output voltage, power, charge, frequency, waveform, alarm indicators			
Work Environment	Temperature	-20° C - 40° C		
	Humidity	≤ 90%		
Other	Weight	2.0kg	2.0kg	2.8kg
	Size	272.2*202.1*71.3 mm		327.4*231.6*87.3 mm

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