

# Ipower series

## Pure Sine Wave Inverter



### Product models

IP350-12 12V 350VA

IP350-22 24V 350VA

### Product Features

- Complete isolation-type inverter technology
- Adoption of advanced SPWM technology, pure sine wave output
- Low output harmonic distortion (THD≤5%)
- Optional output voltage and frequency at 220/230Vac,50/60Hz
- High conversion efficiency up to 91%
- USB output 5Vdc/1A
- Output power limitation function
- Extensive Electronic protection

IP350 series is a pure sine wave inverter which can convert 12/24Vdc into 220/230Vac. It has the characteristics of concise outline, compact size, high reliability, high efficiency, easy to install and operate and so on. The inverter applicable to household emergency lighting system, vehicle mounted system and small field power supply, etc.



USB output: 5VDC/1A

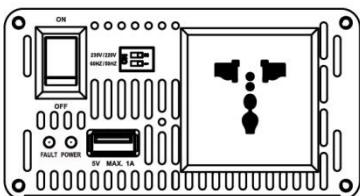
Optional output voltage and frequency:

220V/230V (50Hz/60Hz)

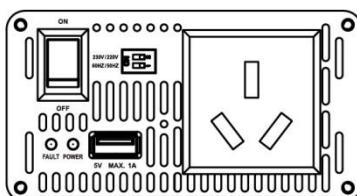
AC Outlet (optional):

Universal,Australia/New Zealand/European

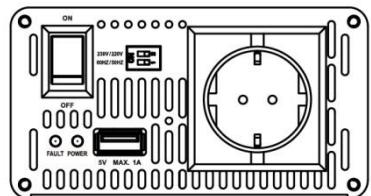
### AC Outlet (optional)



Universal



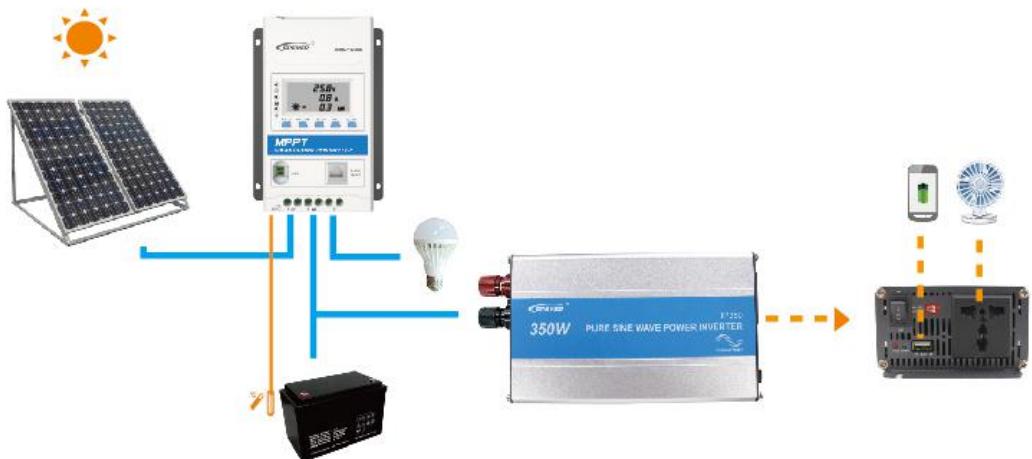
Australia/New Zealand



European

## Protection

- Over voltage protection and recover
- Over tem. protection and recover
- Load short circuit
- Low voltage protection and recover
- Limit power protectionand recover



## Technical specifications

Model Item	IP350-12	IP350-22
Input Rated Voltage	12VDC	24VDC
Input Voltage Range	10.8~16VDC	21.6~32VDC
Input surge voltage	<32V	<44V
Fuse	32VDC/50A	32VDC/30A
No-load current	<0.7A	<0.5A
Output Voltage	220VAC( $\pm 5\%$ ) 230VAC(-10%~+5%)	
Output Continuous Power	350VA(-20°C~+45°C)	
Power factor	0.8	
Instantaneous impact power	$\geq 750\text{VA}$	
Output way	Single phase	
Output Wave	Pure sine wave	
Output Frequency	50/60Hz ( $\pm 0.2\%$ )	
Distortion THD	THD $\leq 5\%$ (Resistive load)	
Max. Efficiency	91%	
USB Output	5VDC/1A	

## Environmental Parameters

Item	Model	IP350-12
Working environment temperature		-20°C ~ +45°C
Storage temperature range		-35°C ~ +70°C
Humidity range		≤93% (N.C.)
Enclosure		IP20
Altitude		<2000m (Derating to operate according to IEC62040 at a height exceeding 1000 m)

## Mechanical Parameters

DC input terminal	6mm <sup>2</sup>
Overall dimension	221×106.5×67.5mm
Mounting dimension	193mm
Mounting hole size	Φ4.2mm
Net weight	0.9kg

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## Pure Sine Wave Inverter



### Product models

IP350-11 12V 350VA  
IP350-21 24V 350VA  
IP500-11 12V 500VA  
IP500-21 24V 500VA

Ipower series is a pure sine wave inverter which can convert 12/24Vdc into 110/120Vac. It has the characteristics of concise outline, compact size, high reliability, high efficiency, easy to install and operate and so on. The inverter applicable to household emergency lighting system, vehicle mounted system and small field power supply, etc.

### Product Features



- Complete isolation-type inverter technology
- Adoption of advanced SPWM technology, pure sine wave output
- Low output harmonic distortion (THD≤5%)
- Optional output voltage and frequency at 110/120Vac,50/60Hz
- High conversion efficiency up to 91%
- USB output 5Vdc/1A
- Extensive Electronic protection



USB output: 5VDC/1A

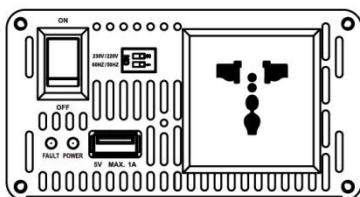
Optional output voltage and frequency:

110V/120V (50Hz/60Hz)

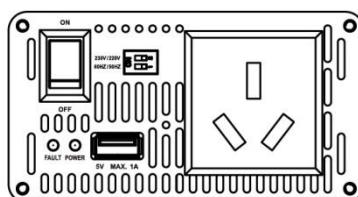
AC Outlet (optional):

Universal,Australia/New Zealand/European

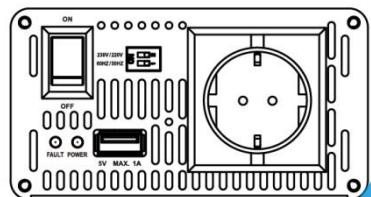
### AC Outlet (optional)



Universal



Australia/New Zealand

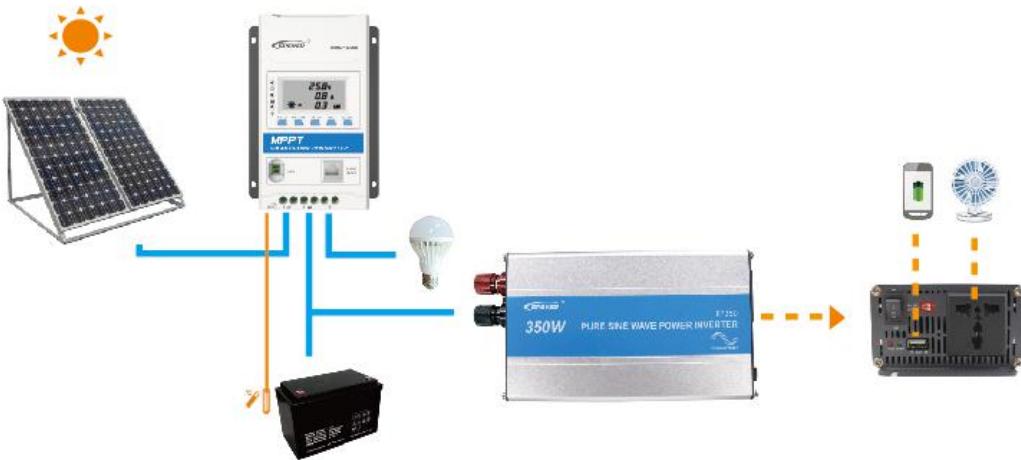


European

## Protection

- Over voltage protection and recover
- Over tem. protection and recover
- Load short circuit protection
- Low voltage protection and recover
- Overload protection<sup>①</sup> and recover

## Connection schematic



## Technical specifications

Item	IP350-11	IP500-11	IP350-21	IP500-21
Input Rated Voltage	12VDC		24VDC	
Input Voltage Range	10.8~16VDC		21.6~32VDC	
Input surge voltage	<32VDC		<44VDC	
Fuse	32VDC/50A	2*32VDC/35A	32VDC/30A	2*32VDC/25A
No-load current	<0.7A	<0.9A	<0.5A	<0.5A
Output Voltage	110VAC(±5%) 120VAC(-10%~+5%)			
Output Continuous Power	280W	400W	280W	400W
Output Power 15 min	350W	500W	350W	500W
Power factor	0.8			
Surge power	750VA	1000VA	750VA	1000VA
Output Wave	Pure sine wave			
Output Frequency	50/60Hz (±0.2%)			
Distortion THD	THD≤5%(Resistive load)			
Max. Efficiency	91% 90%(IP350-11)			
Max. USB Output	5VDC/1A			

## Environmental Parameters

Working environment temperature	-20°C~+45°C
Storage temperature range	-35°C~+70°C
Humidity range	≤93% (N.C.)
Enclosure	IP20
Altitude	<2000m (Derating to operate according to IEC62040 at a height exceeding 1000 m)

## Mechanical Parameters

Item	IP350-11	IP350-21	IP500-11	IP500-21
DC input terminal	6mm2			
Overall dimension	214×105.5×57.7mm		232.2×132×74.5mm	
Mounting dimension	185.5×76.7mm		205×102mm	
Mounting hole size	Φ4.2mm		Φ5.2mm	
Net weight	0.9kg		1.4kg	



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# Ipower series

## Pure Sine Wave Inverter



### Product models

IP350-12 12V 350VA  
IP350-22 24V 350VA  
IP500-12 12V 500VA  
IP500-22 24V 500VA

IP350 series is a pure sine wave inverter which can convert 12/24Vdc into 220/230Vac. It has the characteristics of concise outline, compact size, high reliability, high efficiency, easy to install and operate and so on. The inverter applicable to household emergency lighting system, vehicle mounted system and small field power supply, etc.

### Product Features

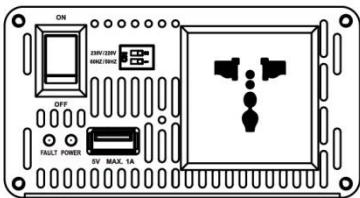


- Complete isolation-type inverter technology
- Adoption of advanced SPWM technology, pure sine wave output
- Low output harmonic distortion (THD≤5%)
- Optional output voltage and frequency at 220/230Vac,50/60Hz
- High conversion efficiency up to 91%
- USB output 5Vdc/1A
- Extensive Electronic protection

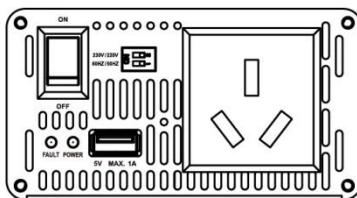


USB output: 5VDC/1A  
Optional output voltage and frequency:  
220V/230V (50Hz/60Hz)  
AC Outlet (optional):  
Universal,Australia/New Zealand/European

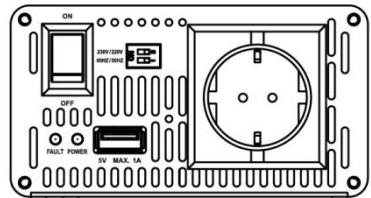
### AC Outlet (optional)



Universal



Australia/New Zealand

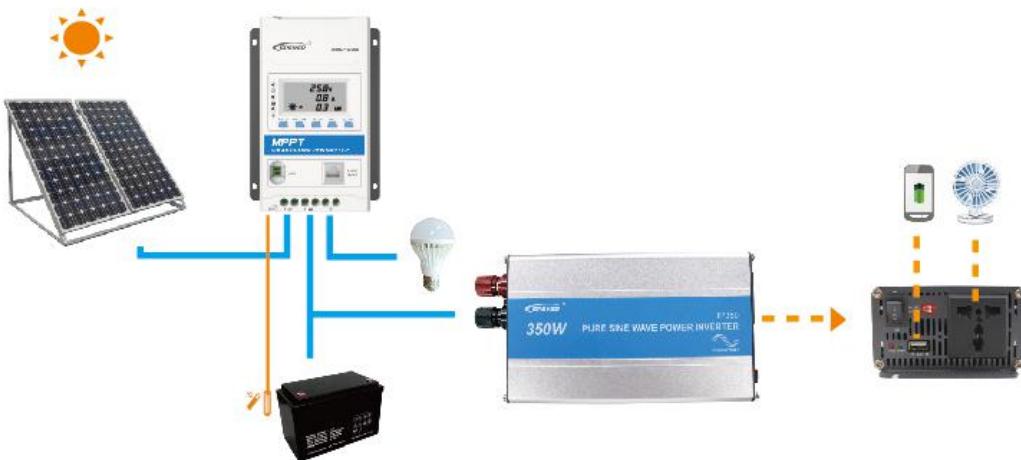


European

## Protection

- Over voltage protection and recover
- Over tem. protection and recover
- Load short circuit protection
- Low voltage protection and recover
- Overload protection<sup>①</sup> and recover

## Connection schematic



## Technical specifications

Item	IP350-12	IP500-12	IP350-22	IP500-22
Input Rated Voltage	12VDC		24VDC	
Input Voltage Range	10.8~16VDC		21.6~32VDC	
Input surge voltage	<32VDC		<44VDC	
Fuse	32VDC/50A	2*32VDC/35A	32VDC/30A	2*32VDC/25A
No-load current	<0.7A	<0.9A	<0.5A	<0.5A
Output Voltage		220VAC(±5%) 230VAC(-10%~+5%)		
Output Continuous Power	280W	400W	280W	400W
Output Power 15 min	350W	500W	350W	500W
Power factor		0.8		
Surge power	750VA	1000VA	750VA	1000VA
Output Wave		Pure sine wave		
Output Frequency		50/60Hz (±0.2%)		
Distortion THD		THD≤5%(Resistive load)		
Max. Efficiency		92% 91%(IP350-12)		
Max. USB Output		5VDC/1A		

## Environmental Parameters

Working environment temperature	-220°C ~ +45°C
Storage temperature range	-35°C ~ +70°C
Humidity range	≤93% (N.C.)
Enclosure	IP20
Altitude	<2000m (Derating to operate according to IEC62040 at a height exceeding 1000 m)

## Mechanical Parameters

Item	IP350-12	IP350-22	IP500-12	IP500-22
DC input terminal		6mm <sup>2</sup>		
Overall dimension	214×105.5×57.7mm		232.2×132×74.5mm	
Mounting dimension	185.5×76.7mm		205×102mm	
Mounting hole size	Φ4.2mm		Φ5.2mm	
Net weight	0.9kg		1.4kg	

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## Ipower series

### Pure Sine Wave Inverter

#### Product models

IP1500-11 12V  
IP1500-21 24V  
IP2000-21 12V  
IP2000-41 24V

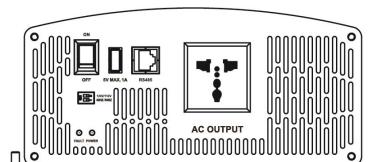
#### Product Features

- Complete isolation-type inverter technology
- Adoption of advanced SPWM technology
- pure sine wave output
- Dynamic current loop control technology
- to ensure inverter reliable operation
- Wide DC input voltage range
- Low output harmonic distortion (THD≤5%)
- Optional output voltage and frequency at 110/120VAC,50/60Hz
- High conversion efficiency up to 95%
- USB output 5VDC/1A\*
- RS485 communication port\*
- Extensive Electronic protection
- \* Only the model of the USB output port or RS485 port.

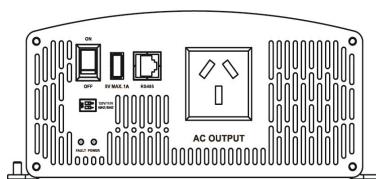
Thanks for purchasing IPower series inverters. The product is a pure sine wave inverter which can convert 12/24/48VDC to 110/120VAC 50/60Hz based on full digital and intelligent design. It features high reliability, high efficiency, concise outline, small volume, full protection functions, easy installation and operation. The inverter can be applied in many fields, such as household emergency lighting system, vehicle mounted system and small field power supply, etc.



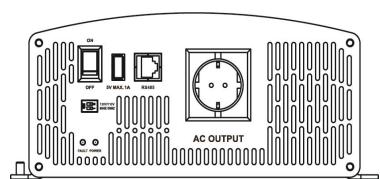
#### AC Outlet (optional)



Universal



Australia/New Zealand



European

## Protection

- Over voltage protection and recover
- Over tem. protection and recover
- Load short circuit protection
- Low voltage protection and recover
- Overload protection® and recover

## Technical specifications

Item	IP1500-11	IP1500-21	IP2000-21	IP2000-41
Input Rated Voltage	12VDC	24VDC	24VDC	48VDC
Input Voltage Range	10.8~16VDC	21.6~32VDC	21.6~32VDC	43.2~60VDC
Input surge voltage	<20VDC	<40VDC	<40VDC	<80VDC
No-load current	<1.0A	<0.6A	<0.6A	<0.4A
Output Voltage	110VAC(±5%) 120VAC(-7%~+5%)		110VAC(±5%) 120VAC(-10%~+5%)	
Output Continuous Power	1200W		1600W	
Output Power 15 min	1500W		2000W	
Power factor		0.8		
Surge power	2400W		3200W	
Output way	Single phase		Single phase	
Output Wave	Pure sine wave		Pure sine wave	
Output Frequency	50/60Hz (±0.2%)		50/60Hz (±0.2%)	
Distortion THD	THD≤5%(Resistive load)		THD≤5%(Resistive load)	
Max. Efficiency	93%	94%	95%	
Max. USB Output	5VDC/1A		5VDC/1A	
Binding post	Φ10mm		Φ10mm	
Overall dimension	326.12×231.5×98.5mm	284.7×231.5×98.5mm	326.12×231.5×98.5mm	
Mounting dimension	208×220mm	163×220mm	208×219.5mm	
Mounting hole size	Φ5.5mm		Φ5.5mm	
Net weight	3.9kg		4.0kg	

## Environmental Parameters

Working environment temperature	-20°C~+45°C
Storage temperature range	-35°C~+70°C
Humidity range	≤93% (N.C.)
Enclosure	IP20
Altitude	<2000m (Derating to operate according to IEC62040 at a height exceeding 1000 m)

Others

Dielectric Strength	<p>Between DC input terminals and metal case: Test voltage AC1500V, 1 minute</p> <p>Between AC output terminals and metal case: Test voltage AC1500V, 1 minute</p>
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## Ipower series

### Pure Sine Wave Inverter

#### Product models

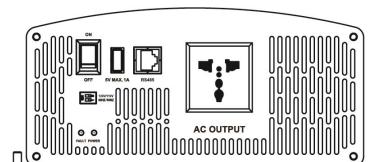
IP1500-12 12V  
IP1500-22 24V  
IP2000-22 12V  
IP2000-42 24V

#### Product Features

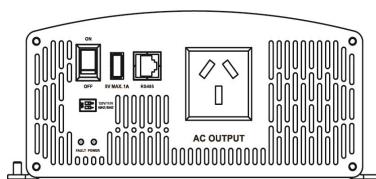
- Complete isolation-type inverter technology
  - Adoption of advanced SPWM technology, pure sine wave output
  - Dynamic current loop control technology
  - to ensure inverter reliable operation
  - Wide DC input voltage range
  - Low output harmonic distortion (THD≤5%)
  - Optional output voltage and frequency at 110/120VAC,50/60Hz
  - High conversion efficiency up to 95%
  - USB output 5VDC/1A\*
  - RS485 communication port\*
  - Extensive Electronic protection
- \* Only the model of the USB output port or RS485 port.

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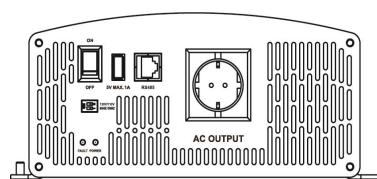
#### AC Outlet (optional)



Universal



Australia/New Zealand



European

## Protection

- Over voltage protection and recover
- Over tem. protection and recover
- Load short circuit protection
- Low voltage protection and recover
- Overload protection<sup>①</sup> and recover

## Technical specifications

Item	IP1500-12	IP1500-22	IP2000-22	IP2000-42
Input Rated Voltage	12VDC	24VDC	24VDC	48VDC
Input Voltage Range	10.8~16VDC	21.6~32VDC	21.6~32VDC	43.2~60VDC
Input surge voltage	<20VDC	<40VDC	<40VDC	<80VDC
No-load current	<1.0A	<0.6A	<0.6A	<0.4A
Output Voltage	220VAC(±5%) 230VAC(-7%~+5%)	220VAC(±5%) 230VAC(-10%~+5%)	220VAC(±5%) 230VAC(-10%~+5%)	220VAC(±5%) 230VAC(-10%~+5%)
Output Continuous Power	1200W	1200W	1600W	1600W
Output Power 15 min	1500W	1500W	2000W	2000W
Power factor	0.8	0.8	0.8	0.8
Surge power	2400W	2400W	3200W	3200W
Output way	Single phase	Single phase	Single phase	Single phase
Output Wave	Pure sine wave	Pure sine wave	Pure sine wave	Pure sine wave
Output Frequency	50/60Hz (±0.2%)	50/60Hz (±0.2%)	50/60Hz (±0.2%)	50/60Hz (±0.2%)
Distortion THD	THD≤5%(Resistive load)	THD≤5%(Resistive load)	THD≤5%(Resistive load)	THD≤5%(Resistive load)
Max. Efficiency	93%	94%	95%	95%
Max. USB Output	5VDC/1A	5VDC/1A	5VDC/1A	5VDC/1A
Binding post	Φ10mm	Φ10mm	Φ10mm	Φ10mm
Overall dimension	326.12×231.5×98.5 mm	284.7×231.5×98.5mm	326.12×231.5×98.5mm	326.12×231.5×98.5mm
Mounting dimension	208×220mm	163×220mm	208×219.5mm	208×219.5mm
Mounting hole size	Φ5.5mm	Φ5.5mm	Φ5.5mm	Φ5.5mm
Net weight	3.9kg	3.9kg	4.0kg	4.0kg

## Environmental Parameters

Working Temperature	-20°C~+45°C
Storage Temperature	-35°C~ +70°C
Humidity	< 95%(N.C.)
Enclosure	IP20
Altitude	< 5000 m (Derating to operate according to IEC62040 at a height exceeding 1000 m)

Others

Dielectric Strength	Between DC input terminals and metal case: Test voltage AC1500V, 1 minute Between AC output terminals and metal case: Test voltage AC1500V, 1 minute
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