

IPower series

Pure Sine Wave Inverter



Product models

110V/120V Output

IP350-11	12V
IP350-21	24V
IP500-11	12V
IP500-21	24V

220V/230V Output

IP350-12	12V
IP350-22	24V
IP500-12	12V
IP500-22	24V

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

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

IPower series are pure sine wave inverter which can convert 12/24Vdc into 110/120/220/230Vac. It has the characteristics of concise outline, compact size, high reliability, high efficiency, easy to install and operate and so on. The inverter is 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 110/120/220/230Vac,50/60Hz
- High conversion efficiency up to 91%
- Optional USB output 5Vdc/1A
- Extensive Electronic protection

Protection

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

Technical specifications (一)

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	750W	1000W	750W	1000W
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			
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	-20℃~+45℃			
Storage temperature range	-35℃~+70℃			
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 / IP350-12	IP350-21 / IP350-22	IP500-11 / IP500-12	IP500-21 / IP500-22
DC input terminal	6mm ²			
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	

Technical specifications (二)

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	
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%)	
Output Continuous Power	1200W		1600W	

No-load current	<1.0A	<0.6A	<0.6A	<0.4A
Output Voltage	220VAC(±5%) 230VAC(-7%~+5%)		220VAC(±5%) 230VAC(-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	326.12×231.5×98.5m m	284.7×231.5×98.5m m	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℃~+45℃			
Storage temperature range	-35℃~+70℃			
Humidity range	≤93% (N.C.)			
Enclosure	IP20			
Altitude	<2000m(Derating to operate according to IEC62040 at a height exceeding 1000 m)			

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