

Overview

Epever IPB series is a high-frequency sine wave inverter with a utility bypass function, meeting the requirements of inverter or bypass power supply. The advanced voltage-current dual closed-loop control algorithm achieves precise power control, enhancing the stability and efficiency of the inverter. IPB series features fast response, high conversion efficiency and low Total Harmonic Distortion(THD). It can be applied in DC-AC solar off-grid systems. You can enjoy the reliable power in your house, RV or outdoor camping anywhere, anytime.

Features

- Pure sine wave output
- Input to output electrical isolation
- Utility bypass automatic switching function (utility supplies load when the utility is normal)
- Output power factor up to 1
- Input Protection: Low-voltage, Over-voltage
- Output Protection: Overload, Short circuit, Overheating
- Diversified AC output sockets
- RS485 com. port to realize remote monitoring
- External switch design, matched with EPEVER products, to expand inverter control function and reduce power consumption



Technical Specifications

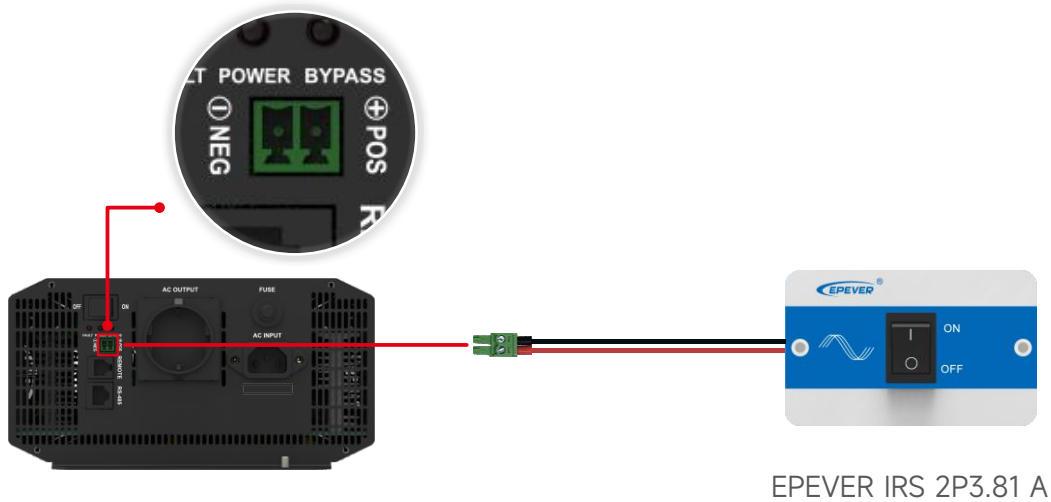
Parameter	IPB500-12(E/R)	IPB1000-12(E/R)	IPB1500-12(E/R)	IPB2000-12(E/R)	IPB3000-12(E/R)
AC Input Voltage Range	190~265VAC				
Fast-acting Fuse Rated Current	3A	5A	8A	10A	15A
AC Input Frequency Range	45Hz~55Hz/55Hz~65Hz				
Battery Rated Voltage	12VDC				
Battery Work Voltage Range	10.8 - 16.0VDC				
Battery Rated Input Current	46.7A	92.3A	141.1A	185.6A	283.7A
Continuous Output Power	500W@35°C@12VDC	1000W@35°C@12VDC	1500W@35°C@12VDC	2000W@35°C@12VDC	3000W@35°C@12VDC
5-second Transient Surge Output Power	1000W	2000W	3000W	4000W	6000W
Inverter Output Voltage	220VAC (±3%); 230VAC (-6%~+3%); 240VAC (-9%~+3%)				
Inverter Frequency	50/60Hz ± 0.2%				
Output Voltage Waveform	Pure Sine Wave				
Output Voltage Harmonic Distortion Rate	≤ 3% (Resistive load)				
Load Power Factor	0.2 ~ 1 (Load power ≤ Continuous output power)				
Maximum Output Current	4.6A	9.2A	13.8A	18.4A	27.6A
Rated Output Current	2.3A	4.6A	6.9A	9.2A	13.8A
Rated Output Efficiency ^①	90.20%	91.40%	89.70%	90.90%	89.20%
Maximum Output Efficiency ^②	> 91.0% (40% loads)	> 93.0% (40% loads)	> 93.0% (30% loads)	> 94.0% (30% loads)	> 94.0% (30% loads)
Idle Current	< 0.15A	< 0.2A	< 0.2A	< 0.2A	< 0.2A
No-load Current	< 0.9A	< 1.1A	< 1.2A	< 1.2A	< 1.6A
RS485 Communication Port	5VDC/200mA	5VDC/200mA	5VDC/200mA	5VDC/200mA	5VDC/200mA
Mechanical parameters					
Input Terminal	M6	M6	M6	M10	M10
Dimension (Length x Width x Height)	335 × 160 × 73mm	371 × 228 × 118mm	387 × 228 × 118mm	420 × 228 × 118mm	545 × 228 × 118mm
Mounting Size (Length x Width)	311 × 75mm	345 × 145mm	361 × 145mm	395 × 145mm	520 × 145mm
Mounting Hole Size	Φ5mm	Φ6mm	Φ6mm	Φ6mm	Φ6mm
Net Weight	2.3kg	4.8kg	6.0kg	7.0kg	9.5kg
Environment parameters					
Work Temperature Range	-20°C ~ +60°C (Refer to the Derating Curve)				
Storage Temperature Range	-35 °C ~ +70 °C				
Relative Humidity	≤ 95% (N.C.)				
Enclosure	IP20				
Altitude	< 5000m (If the altitude exceeds 1000 meters, the rated power will be reduced according to IEC62040.)				

① It means the rated output efficiency when the load power equals the "continuous output power" under the battery rated voltage.

② It means the maximum output efficiency when the inverter is connected with different loads under the battery rated voltage.

Inverter remote switch (optional accessory)

This remote switch enables you to remotely power the inverter on/off. It comes with a standard 6-meter switch cable and is compatible with IPB series products.



Connect the 3.81-2P green socket on the remote switch cable to the 3.81-2P green base on the product's side. Turn off the local toggle switch, and the remote switch will control the inverter's on/off.