

# DC-AC Inverter

## Pure Sine Wave



**Model : DB-P500**

12V DC-110V/120V/220V/230V AC  
 24V DC-110V/120V/220V/230V AC  
 48V DC-110V/120V/220V/230V AC

### Socket Type :



### Features :

- Input & output fully insulated.
- High surge power: High starting surge current withstand capability for loads like fridge,camps,motors and other inductive loads.
- Soft start: smooth start-up of the appliances.
- output waveform: pure sine wave power for inductive loads.
- Very stable AC output .
- Cooling fan works automatically when inverter becomes too hot, it turns off automatically when the temperature is reduced.
- Low total harmonic distortion: below 3%.

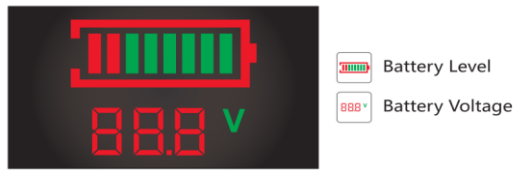
### Protection Features :

 <p><b>OVER TEMPERATURE PROTECTION</b> When working temperature raised too high, it will alarm and turn off automatically.</p>	 <p><b>LOW VOLTAGE PROTECTION</b> When battery voltage becomes too low, it will alarm and turn off automatically.</p>	 <p><b>OVER VOLTAGE PROTECTION</b> When battery voltage becomes too high, it will alarm and turn off automatically.</p>
 <p><b>OVERLOAD PROTECTION</b> When the inverter is overload, it will alarm and turn off automatically.</p>	 <p><b>SHORT CIRCUIT PROTECTION</b> When the wiring is short circuit, it will alarm and turn off automatically.</p>	 <p><b>REVERSE POLARITY PROTECTION</b> When the battery connection is polarity reversed, it will alarm and turn off automatically.</p>

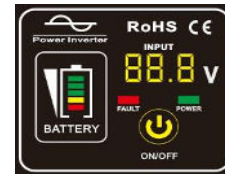
### Quality Conformity :

- LVD:** European Low Voltage Directive : 2014/30/EU  
Standard : EN 60950-1
- CE EMC:** European EMC Directive 2014/30/EU  
Standards: • EMI: EN55022, Class B ; EN61000-3-2, -3-3  
• EMS: EN55024; EN61000-4-2, -4-3, -4-4, -4-5, -4-6, -4-8, -11
- RoHS:** European Directive 2011/65/EU

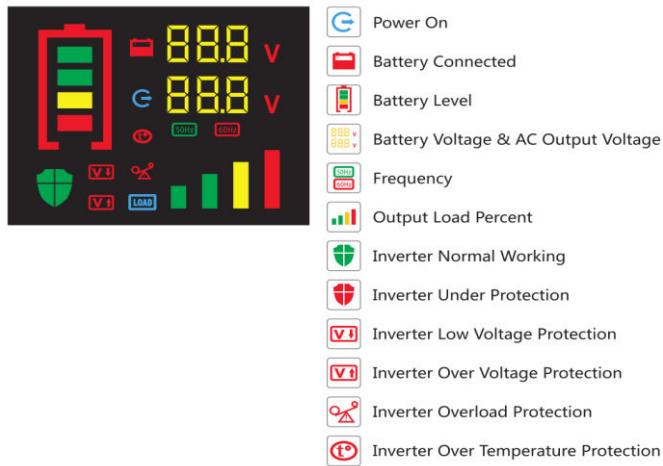
Optional Functions :



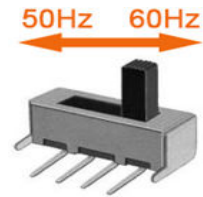
Type A LED Display



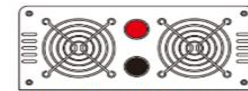
Remote Controller



Type B LED Display



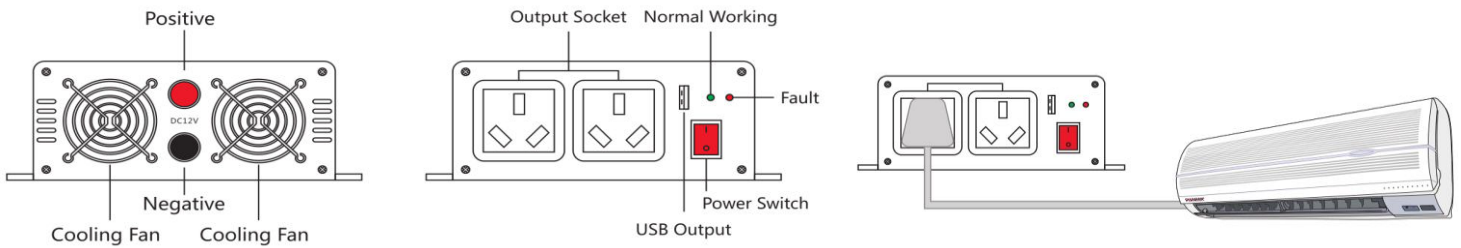
50HZ/60HZ Switch



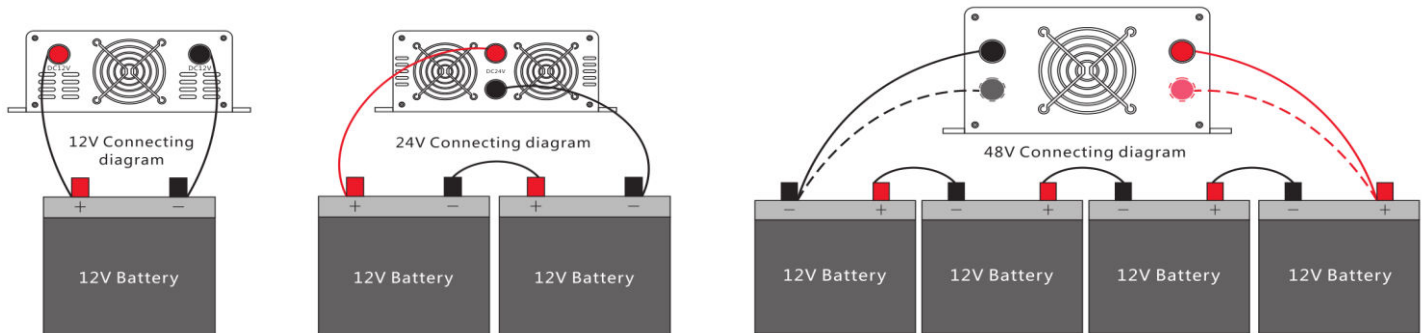
Input voltage:  
36V/60V/72V/  
96V/110VDC

Input Voltage Customize

Components description :



Battery Connection :



**Parameters :**

	Model	DB-P500-121	DB-P500-122	DB-P500-241	DB-P500-242	DB-P500-481	DB-P500-482
Output	Rated Power	500W					
	Surge Power	1000W (few seconds)					
	Output Voltage	110VAC±5%	220VAC±5%	110VAC±5%	220VAC±5%	110VAC±5%	220VAC±5%
	Frequency	50Hz±3 or 60Hz±3					
	Output Waveform	Pure Sine Wave					
	Total Harmonic Distortion	THD<3% (Linear Load)					
Input	Rated Input Voltage	12VDC		24VDC		48VDC	
	Input Voltage Range	10-15.5V		20-31V		40-61V	
	Maximum Input Current	50A		25A		13A	
	Input Current At No Load	0.6A		0.3A		0.1A	
	Low Input Voltage Alarm	10.5±0.5V		21±0.5V		42±1V	
	Low Input Voltage Shut Down	10±0.5V		20±0.5V		40±1V	
	Low Input Voltage Recovery	13±0.5V		24±0.5V		48±1V	
	High Input Voltage Shut Down	15.5±0.5V		31±0.5V		61±1V	
	High Input Voltage Recovery	14.8V±0.5V		29V±0.5V		59V±1V	
Connection	Input	Terminals with cylindrical hole: 20mm/Φ6					
	Output	Different socket type optional					
	Internal DC Side Input Fuse	2*30A = 60A		2*20A=40A			
	Remote	Remote controller optional					
	USB Port	5V 1A					
General	Soft Start	YES					
	Output Efficiency	> 85% (At full load)					
	Cooling Way	Temperature controlled fan. Fan ON at 45°C ; Fan OFF at 42°C (sensed at internal hot spot)					
	Protection	Battery Low Voltage & Over Voltage, Over Load, Over Temperature, Short Circuit, Reverse Polarity					
	Working Temperature	-10°C - +50°C					
	Net Dimension	23.2*15*7.8cm (L×W×H)					
	Inner Box Dimension	28.6*20.3*13cm (L×W×H)					
	N.W./Unit	2KG					
	G.W./Ctn	2.3KG					
	Packing	Colour box					
Warranty	2 Years						

NOTE: Specifications are subject to change without notice