PHOENIX SMART 1200-3000 VA

The Phoenix Inverter Smart is an efficient and reliable inverter. Built on our proven and field tested Phoenix inverter platform, it now comes with a new slimmer design and full metal casing. Models are available in 1600VA, 2000VA and 3000VA for 12, 24 or 48V systems.

Phoenix Smart

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Bluetooth built-in: fully configurable with a tablet or smartphone

- Low battery voltage alarm
- Low battery voltage cut-off and restart levels
- Dynamic cut-off: load dependent cut-off level
- Output voltage: 210 - 245V
- Frequency: 50 Hz or 60 Hz
- ECO mode on/off and ECO mode sense level
- Alarm relay

Monitoring:

- In- and output voltage, load and alarms

VE.Direct communication port

The VE.Direct port can be connected to a computer (VE.Direct to USB interface cable needed) to configure and monitor the same parameters.

Proven reliability

The full bridge plus toroidal transformer topology has proven its reliability over many years.
The inverters are short circuit proof and protected against overheating, whether due to overload or high ambient temperature.

High start-up power

Needed to start loads such as power converters for LED lamps, halogen lamps or electric tools.

ECO mode

When in ECO mode, the inverter will switch to standby when the load decreases below a preset value. Once in standby the inverter will switch on for a short period every 2,5 seconds (adjustable).

If the load exceeds the preset level, the inverter will remain on.

Remote on/off

A remote on/off switch or relay contact can be connected to a two pole connector. Alternatively, the H terminal (left) of the two pole connector can be switched to battery plus, or the L terminal (right) of the two pole connector can be switched to battery minus (or the chassis of a vehicle, for example).

LED diagnosis

Please see manual for a description.

To transfer the load to another AC source: the automatic transfer switch

For our low power inverters we recommend our Filax Automatic Transfer Switch. The Filax features a very short switchover time (less than 20 milliseconds) so that computers and other electronic equipment will continue to operate without disruption. Alternatively use a MultiPlus with built-in transfer switch.

SPECIFICATIONS

Phoenix Smart	12/1600 24/1600 48/1600	12/2000 24/2000 48/2000	12/3000 24/3000 48/3000
Parallel and 3-phase operation		No	
Cont. output power at 25° C	1600 VA	2000 VA	3000 VA
Cont. output power at 25 / 40° C	1300 / 1200 W	1600 / 1450 W	2400 / 2200 W
Peak Power	3000 W	4000 W	6000 W
Output voltage		230 Vca +/- 2%	
Output Frequency		50 or 60 Hz (adjustable) +/- 0,1%	
Input voltage range		12v: 9,3 - 17 vcc / 24v: 18,6 - 34 Vcc / 48v: 37,2 - 62 Vcc	
Max. Efficiency 12 / 24 / 48 V	92 / 94 / 94 %	92 / 94 / 94 %	93 / 94 / 95 %
Zero load power 12 / 24 / 48 V	8 / 9 / 11 W	8 / 9 / 11 W	12 / 13 / 15 W
Zero load power in ECO-mode	0,6 / 1,3 / 2,1 W	0,6 / 1,3 / 2,1 W	1,5 / 1,9 / 2,8 W
ECO mode interval		Adjustable	
Protections		Output short circuit Overload Battery voltage too hight Battery voltage too low Temperature too high DC ripple too high	
Bluetooth communication		Integrated, for remote monitoring and system integration.	
VE.Direct port		For remote monitoring and system integration.	
Remote on-off		Yes	
Temperature		-40 to +60 °C	
Humidity		max 95 % (non condensing)	
Enclosure			
Material and Colour		Steel chassis and plastic cover (Blue RAL 5012)	
Battery connection	M8	M8	2 + 2 M8
230 Vac connection		Screw terminals	
Protection category:		IP21	
Weight	12 Kg	13 Kg	19 Kg
Dimensions (mm)	485 x 219 x 125	485 x 219 x 125	533 x 285 x 150 (12V) 485 x 285 x 150 (24/48V)
Standard			
Safety		EN/IEC 60335-1	
Emission Immunity		EN 55014-1 / EN55014-2 / EN 61000-6-1 / IEC 61000-6-3	
Automotive Directive		ECE R10-5	

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