PHOENIX V2 SERIES

DC/AC Inverters Pure Sinewave 250VA to 1200VA





Phoenix 12/375 VE.Direct



Phoenix 12/375 VE.Direct





VE.Direct communication port

The VE.Direct port can be connected to:

- A computer (VE.Direct to USB interface cable needed)
- Apple and Android smartphones, tablets, MacBook's and other devices (VE.Direct Bluetooth Smart dongle needed)

Fully configurable:

- Low battery voltage alarm trip and reset levels
- 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

Monitoring:

• In- and output voltage, % load and alarms

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 (min load: 15W). Once in standby the inverter will switch on for a short period (adjustable, default: every 2,5 seconds). If the load exceeds a preset level, the inverter will remain on.

Remote on/off

A remote on/off switch can be connected to a two pole connector, or between battery plus and the left hand contact of the two pole connector.

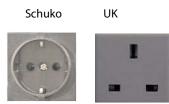
LED diagnosis

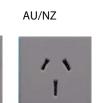
Please see manual for a description.

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.

Available with different output sockets





IEC-320 (male plug included)





Nema 5-15R

DC connection with screw terminals No special tools needed for installation

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48 Volt	48/250 250VA 200 / 175W 400W https://	9,2 -	•	62,0V	48/1200 1200VA 1000 / 850W 2200W			
	200 / 175W 400W https://	300 / 260W 700W 230VAC or 120 9,2 -	400 / 350W 900W 2VAC +/- 3% 50Hz or 17 / 18,4 - 34,0 / 36,8 - 9,3 / 18,6 / 37,2V Dynamic cut-off, see om/live/ve.direct:phoe	650 / 560W 1500W 60Hz +/- 0,1% 62,0V	1000 / 850W 2200W			
	400W https://	700W 230VAC or 120 9,2 -	900W DVAC +/- 3% 50Hz or 17 / 18,4 - 34,0 / 36,8 - 9,3 / 18,6 / 37,2V Dynamic cut-off, see om/live/ve.direct:phoe	1500W 60Hz +/- 0,1% 62,0V	2200W			
	https://	230VAC or 120 9,2 -	DVAC +/- 3% 50Hz or 17 / 18,4 - 34,0 / 36,8 - 9,3 / 18,6 / 37,2V Dynamic cut-off, see om/live/ve.direct:phoe	60Hz +/- 0,1% 62,0V				
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it down		www.victronenergy.c	Dynamic cut-off, see om/live/ve.direct:phoe	enix-inverters-dynami				
			•					
	87/88/000/		10,9 / 21,8 / 43,6V					
	87/88/0004		14,0 / 28,0 / 56,0V					
	0//00/00%	89 / 89 / 90%	90 / 90 / 91%	90 / 90 / 91%	91 / 91 / 92%			
	4,2 / 5,2 / 7,9W	5,6 / 6,1 / 8,5W	6 / 6,5 / 9W	6,5 / 7 / 9,5W	7/8/10W			
)	0,8 / 1,3 / 2,5W	0,9 / 1,4 / 2,6W	1 / 1,5 / 3,0	1 / 1,5 / 3,0	1 / 1,5 / 3,0			
g	Adjustable							
	a-f							
	-40 to +65°C (fan assisted cooling) Derate 1,25% per °C above 40°C							
			max 95%					
		ENCLOSURE						
	Steel chassis and plastic cover (blue Ral 5012)							
	Screw terminals							
	10 mm ² / AWG8	10 mm² / AWG8	10 mm ² / AWG8	25/10/10mm ² / AWG4/8/8	35/25/25 mm ² AWG 2/4/4			
	230V: Schuko (CEE 7/4), IEC-320 (male plug included) UK (BS 1363), AU/NZ (AS/NZS 3112) 120V: Nema 5-15R							
			IP 21					
	2,4kg / 5,3lbs	3,0kg / 6,6lbs	3,9kg / 8.5lbs	5,5kg / 12lbs	7,4kg / 16,3lb			
	86 x 165 x 260 3.4 x 6.5 x 10.2	86 x 165 x 260 3.4 x 6.5 x 10.2	86 x 172 x 275 3,4 x 6,8 x 10,8	105 x 216 x 305 4.1 x 8.5 x 12.1 (12V model: 105 x 230 x 325)	117 x 232 x 32 4.6 x 9.1 x 12.9 (12V model: 117 x 232 x 36			
		ACCESSORIES						
	Yes							
	Filax							
		STANDARDS						
		EN-IE	C 60335-1 / EN-IEC 62	109-1				
	EN 55014-1 / EN 55014-2 / IEC 61000-6-1 / IEC 61000-6-2 / IEC 61000-6-3							
	ECC R10-4							
		9 9 10 mm ² / AWG8 2,4kg / 5,3lbs 86 x 165 x 260 3.4 x 6.5 x 10.2	g g -40 to +65°C (fan assisted ENCLOSURE Steel chassi 10 mm² / AWG8 10 mm² / AWG8 10 mm² / AWG8 230V: Schuko (t UK (BS 230V: Schuko (t UK (BS 230V: Schuko (t) UK (BS 230V: Schuko (t) UK (BS 3,0kg / 6,6lbs 86 x 165 x 260 3.4 x 6.5 x 10.2 ACCESSORIES STANDARDS EN-IE	g Adjustable g a-f -40 to +65°C (fan assisted cooling) Derate max 95% ENCLOSURE Steel chassis and plastic cover (bl 10 mm² / AWG8 10 mm² / AWG8 10 mm² / AWG8 10 mm² / AWG8 10 mm² / AWG8 10 mm² / AWG8 10 mm² / AWG8 10 mm² / AWG8 10 mm² / AWG8 230V: Schuko (CEE 7/4), IEC-320 (male UK (B5 1363), AU/NZ (AS/NZ5 120V: Nema 5-15R IP 21 120V: Nema 5-15R IP 21 2,4kg / 5,3lbs 3,0kg / 6,6lbs 3,9kg / 8,5lbs 86 x 165 x 260 86 x 165 x 260 86 x 172 x 275 3,4 x 6,5 x 10.2 3,4 x 6,8 x 10,8 VEESORIES Yes Filax STANDARDS EN-IEC 60335-1 / EN-IEC 62 EN-IEC 60335-1 / EN-IEC 62 EN-IEC 60335-1 / EN-IEC 62	g Adjustable g a - f -40 to +65°C (fan assisted cooling) Derate 1,25% per °C above 40 max 95% ENCLOSURE Steel chassis and plastic cover (blue Ral 5012) Screw terminals 10 mm² / AWG8 10 mm² / AWG8 10 mm² / AWG8 25/10/10mm² / AWG8/8/8 25/10/10mm² / AWG8 10 mm² / AWG8 10 mm² / AWG8 10 mm² / AWG8 25/10/10mm² / AWG4/8/8 25/10/10mm² / AWG8 10 mm² / AWG8 25/10/10mm² / AWG8/8/8 25/10/10mm² / AWG8 25/10/10mm² / AWG8 25/10/10mm² / AWG8/8/8 200V: Schuko (CEE 7/4), IEC-320 (male plug included) UK (BS 1363), AU/NZ (AS/NZS 3112) 120V: Nema 5-15R IP 21 2.4kg / 5,3lbs 3,0kg / 6,6lbs 3,9kg / 8.5lbs 5,5kg / 12lbs 86 x 165 x 260 86 x 165 x 260 86 x 172 x 275 4.1 x 8.5 x 12.1 105 x 216 x 305 ACCESSORIES Yes Filax STANDARDS EN-IEC 60335-1 / EN-IEC 62109-1 <td colsp<="" td=""></td>			



Battery Alarm

An excessively high or low battery voltage is indicated by an audible and visual alarm, and a relay for remote signalling.



VE.Direct Bluetooth Smart dongle (must be ordered separately)



BMV Battery Monitor

The BMV Battery Monitor features an advanced microprocessor control system combined with high resolution measuring systems for battery voltage and charge/discharge current. Besides this, the software includes complex calculation algorithms to exactly determine the state of charge of the battery. The BMV selectively displays battery voltage, current, consumed Ah or time to go. The monitor also stores a host of data regarding performance and use of the battery.