Phoenix Inverters

250VA - 1200VA 230V and 120V, 50Hz or 60Hz



Phoenix 12/375 VE.Direct



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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

UK







IEC-320 (male plug included)





Nema 5-15R

DC connection with screw terminals No special tools needed for installation





48 Volt 48/25 250V/ 200 / 17 400W table) ut down 87 / 88 / 8 4,2 / 5,2 /	A 5W / https://w	9,2 - 1		62,0V	48/1200 1200VA 1000 / 850W 2200W			
400W table) ut down 87 / 88 / 8 4,2 / 5,2 /	/ https://w	700W 230VAC or 120 9,2 - 1	900W IVAC +/- 3% 50Hz or 17 / 18,4 - 34,0 / 36,8 - 9,3 / 18,6 / 37,2V Dynamic cut-off, see om/live/ve.direct:phot	1500W 60Hz +/- 0,1% 62,0V				
400W table) ut down 87 / 88 / 8 4,2 / 5,2 /	/ https://w	700W 230VAC or 120 9,2 - 1	900W IVAC +/- 3% 50Hz or 17 / 18,4 - 34,0 / 36,8 - 9,3 / 18,6 / 37,2V Dynamic cut-off, see om/live/ve.direct:phot	1500W 60Hz +/- 0,1% 62,0V				
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87 / 88 / 8 4,2 / 5,2 /		ww.victronenergy.co	om/live/ve.direct:pho	enix-inverters-dynamic				
4,2 / 5,2 /	88%		100/219/4264					
4,2 / 5,2 /	88%		10,9 / 21,8 / 43,6V					
4,2 / 5,2 /	88%		14,0 / 28,0 / 56,0V					
		89 / 89 / 90%	90 / 90 / 91%	90 / 90 / 91%	91 / 91 / 92%			
	7,9W	5,6 / 6,1 / 8,5W	6 / 6,5 / 9W	6,5 / 7 / 9,5W	7/8/10W			
e) 0,8 / 1,3 / 1	2,5W	0,9 / 1,4 / 2,6W	1 / 1,5 / 3,0	1 / 1,5 / 3,0	1 / 1,5 / 3,0			
ıg	Adjustable							
	a-f							
	-40 to +65°C (fan assisted cooling) Derate 1,25% per °C above 40°C							
			max 95%					
	E	ENCLOSURE						
	Steel chassis and plastic cover (blue Ral 5012)							
			Screw terminals					
10 mm² / A	AWG8	10 mm ² / AWG8	10 mm ² / AWG8	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 / 16,3lbs			
		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 327 4.6 x 9.1 x 12.9 (12V model: 117 x 232 x 362			
	A	CCESSORIES						
	Yes							
	Filax							
	5	STANDARDS						
	EN-IEC 60335-1 / EN-IEC 62109-1							
	EN 55014-1 / EN 55014-2 / IEC 61000-6-1 / IEC 61000-6-2 / IEC 61000-6-3							
	ECE R10-4							
			ECE R10-4					
	10 mm² / / 2,4kg / 5, 86 x 165 >	19 -40 to 10 mm² / AWG8 2,4kg / 5,3lbs 86 x 165 x 260 3.4 x 6.5 x 10.2 A	19 -40 to +65°C (fan assisted 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 3,0kg / 6,6lbs 86 x 165 x 260 3,4 x 6.5 x 10.2 3,4 x 6.5 x 10.2 CESSORIES CESSORIES CESSORIES CESSORIES CESSORIES CESSORIES CESSORIES CESSORIES	Ing Adjustable a - f -40 to +65°C (fan assisted cooling) Derate 0 -40 to +65°C (fan assisted cooling) Derate 0 ENCLOSURE max 95% 0 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 (B 1363), AU/NZ (AS/NZ9 120V: Nema 5-15R UK (B 1363), AU/NZ (AS/NZ9 120V: Nema 5-15R 120Y: Nema 5-15R IP 21 IP 21 2,4kg / 5,3lbs 3,0kg / 6,6lbs 3,9kg / 8,5lbs 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 3,4 x 6,8 x 10,8 VECESSORIES Yes Filax EN-IEC 60335-1 / EN-IEC 62 EN-IEC 60335-1 / EN-IEC 62 EN-IEC 60335-1 / EN-IEC 62 EN-IEC 60335-1 / EN-IEC 62	ng Adjustable a - f a - f -40 to +65°C (fan assisted cooling) Derate 1,25% per °C above 40 max 95% ENCLOSURE ENCLOSURE Steel chassis and plastic cover (blue Ral 5012) UK (BS 165 x 260 Steel chassis and plastic cover (blue Ral 5012) UK (BS 1363), AU/NZ (AS/NZS S112) 10 mm² / AWG8 Steel chassis and plastic cover (blue Ral 5012) UK (BS 1363), AU/NZ (AS/NZS S112) 120'N Rad 5 x 260 Steel chassis and plastic cover (blue Ral 5012)			

Battery Alarm

voltage too low there ar discorried loads

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

battery ala



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.

