Phoenix Inverters

250VA – 375VA 230V

www.victronenergy.com

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, macbooks 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
- Output voltage 210 - 245V
- Frequency 50 Hz or 60 Hz
- ECO mode on/off and ECO mode sense level

Monitoring:

- In- and output voltage and current 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. 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

Schuko UK (BS-1363) AU/NZ (3112) EC-320 (male plug included)

Screw terminals

No special tools needed for installation

Phoenix Inverter 12 Volt 24 Volt 48 Volt	12/250 24/250 48/250	12/375 24/375 48/375
Cont. power at 25°C (1)	250VA	375VA
Cont. power at 25°C / 40°C	200 / 150W	300 / 250W
Peak power	350W	700W
Output AC voltage / frequency (adjustable)	230VAC +/- 3% 50Hz or 60Hz +/- 0,1%	
Input voltage range	9,2 - 17 / 18,4 - 34,0 / 36,8 - 62,0V	
DC low shut down (adjustable)	9,3 / 18,6 / 37,2V	
DC low restart and alarm (adjustable)	10,9 / 21,8 / 43,6V	
Battery charged detect (adjustable)	14,0 / 28,0 / 56,0V	
Max. efficiency	87 / 88 / 88%	89 / 89 / 90%
Zero-load power	4,2 / 5,2 / 7,9W	5,6 / 6,1 / 8,5W
Default zero-load power in ECO mode (default retry interval: 2,5 s, adjustable)	0,8 / 1,3 / 2,5W	0,9 / 1,4 / 2,6W
ECO mode stop and start power setting	Adjustable	
Protection (2)	a - f	
Operating temperature range	-40 to +60°C (fan assisted cooling) (derate 3% per °C above 40°C)	
Humidity (non-condensing)	max 95%	
ENCLOSURE		
Material & Colour	Steel chassis and plastic cover (blue Ral 5012)	
Battery-connection	Screw terminals	
Maximum cable cross-section	10 mm² / AWG8	10 mm² / AWG8
Standard AC outlets	Schuko (CEE 7/4), IEC-320 (male plug included) UK (BS 1363), AU/NZ (AS/NZS 3112)	
Protection category	IP 21	
Weight	2,4kg / 5,3lbs	3,0kg / 6,6lbs
Dimensions (hxwxd, mm) (hxwxd, inch)	86x165x260 3.4x6.5x10.2	86x165x260 3.4x6.5x10.2
ACCESSORIES		
Remote on-off	Yes	
Automatic transfer switch	Filax	
STANDARDS		
Safety	EN/IEC 60335-1 / EN/IEC 62109-1	
EMC	EN 55014-1 / EN 55014-2 / IEC 61000-6-1 / IEC 61000-6-3	
Automotive Directive	2004/104/EC EN 50498	

1) Nonlinear load, crest factor 3:1
2) Protection key:
   a) output short circuit
   b) overload
   c) battery voltage too high
   d) battery voltage too low
   e) temperature too high
   f) DC ripple too high

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

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.

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

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