

PHOENIX VE.DIRECT INVERTERS



Inversor Phoenix VE.Direct



Inversor Victron Energy Phoenix VE.Direct



Inversor Phoenix VE.Direct



VE.Direct iOS



VE.Direct Bluetooth dongle

The new series of Victron Energy Phoenix VE.Direct inverters comes to replace the well know Phoenix inverters, including new functionalities and versatility to this product:

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

Now you can get information of the inverter status thanks to the leds. 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)
- IEC-320 (male plug included)

Screw terminals

No special tools needed for installation

SPECIFICATIONS

Phoenix VE.Direct	12/250	12/375	12/500	12/800	12/1200
	24/250	24/375	24/500	24/800	24/1200
	48/250	48/375	48/500	48/800	48/1200
Cont. Power 25° C	250 VA	375 VA	500 VA	800 VA	1200 VA
Cont. Power at 25 / 40° C	200 / 150 W	300 / 250 W	400 / 350 W	650 / 560 W	1000 / 850 W
Peak Power	350 W	700 W	900 W	1500 W	2200 W
Output AC voltage	230 Vac +/- 3%				
Output Frequency	50 or 60 Hz (adjustable) +/- 0,1%				
Input voltage range	12v: 9,2 - 17 vdc / 24v: 18,4 - 34 Vdc / 48v: 36,8 - 62 Vdc				
DC low shut down	9,3 / 18,6 / 37,2 Vdc (adjustable)				
DC low restart and alarm	10,9 / 21,8 / 43,6 Vdc (adjustable)				
Battery charged detect	14 / 28 / 56 Vdc (adjustable)				
Max. efficiency	87 / 88 / 88 %	89 / 89 / 90 %	90 / 90 / 91 %	90 / 90 / 91 %	91 / 91 / 92 %
Zero-load consumption	4,2 / 5,2 / 7,9 W	5,6 / 6,1 / 8,5 W	6 / 6,5 / 9,0 W	6,5 / 7,0 / 9,0 W	7 / 8 / 9 W
ECO mode consumption	0,8 / 1,3 / 2,5 W	0,9 / 1,4 / 2,6 W	1 / 1,5 / 3,0 W	1 / 1,5 / 3,0 W	1 / 1,5 / 3,0 W
ECO mode interval	Adjustable				
Protección	Output short circuit Overload Battery voltage too high Battery voltage too low Temperature too high DC ripple too high				
Temperature	-40 to +60 °C (fan assisted cooling) Derate 3% per °C above 40 °C				
Humidity	max 95 % (non.condensing)				
Enclosure					
Material & Colour	Steel chassis and plastic cover (Blue RAL 5012)				
Battery-connection	Screw terminals				
Maximum cable cross-section	10 mm ²	10 mm ²	10 mm ²	25 / 10 / 10 mm ²	32 / 25 / 25 mm ²
IP Protection	IP21				
weight	2,4 Kg	3,0 Kg	3,9 Kg	5,5 Kg	7,4 Kg
Dimensions (mm)	86 x 165 x 260	86 x 165 x 260	86 x 172 x 275	12V: 105 x 230 x 325 105 x 216 x 305	12V: 117 x 232 x 362 117 x 232 x 327
Standards					
Safety	EN/IEC 60335*1 / EN/IEC 62109-1				
EMC	EN 55014-1 / EN55014-2 / EN 61000-6-1 / IEC 61000-6-3				
Automotive directive	2004/104/EC EN 50498				

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