



Monitoring:

- In- and output voltage, % load and alarms

Proven reliability

The full bridge plus toroidal transformer topology has proven reliability. The inverters are short circuit proof and protected against high ambient temperature.

High start-up power

Needed to start loads such as power converters for LED lighting.

ECO mode

When in ECO mode, the inverter will switch to standby when the load value (min load: 15W). Once in standby the inverter will switch back to default: every 2,5 seconds). If the load exceeds a preset level, it will switch back to normal operation.

Remote on/off

A remote on/off switch can be connected to a two pole connector. 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 automat

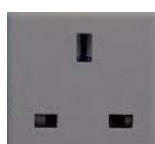
For our low power inverters we recommend our Filax Automatic Transfer Switch (ATS) with a very short switchover time (less than 20 milliseconds) so that the equipment will continue to operate without disruption.

Available with different output sockets

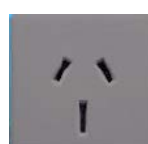
Schuko



UK



AU/NZ



DC connection with 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	12/500 24/500 48/500	12/800 24/800 48/800	12/1200 24/1200 48/1200
Cont. power at 25°C (1)		250VA	375VA	500VA	800VA	1200VA
Cont. power at 25°C / 40°C		200 / 175W	300 / 260W	400 / 350W	650 / 560W	1000 / 850W
Peak power		400W	700W	900W	1500W	2200W
Output AC voltage / frequency (adjustable)		230VAC or 120VAC +/- 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				
Dynamic (load dependent) DC low shut down (fully configurable)		Dynamic cut-off, see https://www.victronenergy.com/live/ve.direct:phoenix-inverters-dynamic-cutoff				
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%	90 / 90 / 91%	90 / 90 / 91%	91 / 91 / 92%
Zero-load power		4,2 / 5,2 / 7,9W	5,6 / 6,1 / 8,5W	6 / 6,5 / 9W	6,5 / 7 / 9,5W	7 / 8 / 10W
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	1 / 1,5 / 3,0	1 / 1,5 / 3,0	1 / 1,5 / 3,0
ECO mode stop and start power setting		Adjustable				
Protection (2)		a - f				
Operating temperature range		-40 to +65°C (fan assisted cooling) Derate 1,25% 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 mm ² / AWG8	10 mm ² / AWG8	10 mm ² / AWG8	25/10/10mm ² / AWG4/8/8	35/25/25 mm ² / AWG 2/4/4	
Standard AC outlets	230V: Schuko (CEE 7/4), IEC-320 (male plug included) UK (BS 1363), AU/NZ (AS/NZS 3112) 120V: Nema 5-15R					
Protection category	IP 21					
Weight	2,4kg / 5,3lbs	3,0kg / 6,6lbs	3,9kg / 8,5lbs	5,5kg / 12lbs	7,4kg / 16,3lbs	
Dimensions (hxwx, mm) (hxwx, inch)	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 327 4.6 x 9.1 x 12.9 (12V model: 117 x 232 x 362)	

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 61000-6-2 / IEC 61000-6-3
Automotive Directive	ECE R10-4

- 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.



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.