

DATASHEET | Published April 2012

Power Inverters



Modified Sine Wave



Pure Sine Wave

COMPACT SOFT START INVERTERS

These high efficiency power inverters use a modified sine wave to power mains equipment from either 12 or 24V battery.

Ideal for use with TVs, computers, hand held tools, kettles and other appliances.

- Reverse polarity protection
- Short circuit and overload protection
- Battery low/high shutdown
- Over temperature protection
- Modified sine wave output



Order ref	651.660UK	651.661UK	651.662UK	651.663UK	651.664UK	651.665UK
Input voltage	12Vdc	24Vdc	12Vdc	24Vdc	12Vdc	24Vdc
No load current	<0.35A	<0.18A	<0.4A	<0.2A	<0.7A	<0.35A
Cont. Power	150W		300W		600W	
Supplied with	80cm DC power lead with car lighter plug		90cm DC power leads with car lighter plug and crocodile clips		1.0m DC power lead with crocodile clips	
Dimensions	60 x 110 x 160mm		60 x 110 x 200mm		60 x 110 x 240mm	
Weight	707g		776g		1kg	

Order ref	651.666UK	651.667UK	651.668UK	651.670UK	651.671UK	651.672UK
Input voltage	12Vdc	24Vdc	12Vdc	24Vdc	12Vdc	24Vdc
No load current	<0.7A	<0.35A	<0.8A	<0.4A	<1.5A	<0.75A
Cont. Power	1000W		1500W		2500W	
Supplied with	1.0m DC power lead with ring terminals		1.0m DC power lead with ring terminals		1.0m DC power lead with ring terminals	
Dimensions	80 x 140 x 270mm		80 x 200 x 310mm		80 x 200 x 410mm	
Weight	1.87kg		2.97kg		4.5kg	

WHAT POWER INVERTER SHOULD I USE?

To determine what inverter you should be using, you need to know the power your appliance requires. If your appliance does not specify this, use the following equation to work it out.

Voltage x Amps = Wattage

This information is normally specified on the electrical item's unit label (usually found on the back or on the bottom).

For example:

Soldering station 240Vac 0.2A

$240\text{Vac} \times 0.2\text{A} = 48\text{W}$

* Please note: Some devices require twice as much current on start-up. Therefore we strongly recommend that you double the power requirements for your device. For example the above soldering station would be: $48\text{W} \times 2 = 96\text{W}$ so requires a minimum of a 100W inverter.

WHY CHOOSE PURE SINE WAVE?

The advantage of a pure sine wave inverter over a modified sine wave inverter is that they produce clean power with low harmonic distortion like that supplied from a mains outlet. This means equipment which uses motors and inductive loads such as microwaves, vacuum cleaners, pumps and hand held tools run quieter, faster and cooler.

Also, items which do not run on modified sine wave inverters all function correctly and efficiently. These items include: some battery chargers for cordless tools, fluorescent lights (with electronic ballasts) and items which use motors of varying speed.

COMPACT PURE SINE WAVE INVERTERS

These high efficiency soft start power inverters use a pure sine wave to power mains equipment from either a 12 or 24V battery.

- Soft start (minimises inverter shutdown when using large inductive loads)
- Reverse polarity protection
- Short circuit and overload protection
- Battery low/high shutdown
- Over temperature protection
- LED fault indicator
- Integrated 1000mA USB socket on 300W version



Order ref	651.673UK	651.674UK	651.675UK	651.676UK	651.679UK	651.680UK
Input voltage	12Vdc	24Vdc	12Vdc	24Vdc	12Vdc	24Vdc
No load current	<0.4A	<0.2A	<0.7A	<0.35A	<0.7A	<0.35A
Cont. Power	300W		600W		1000W	
Supplied with	90cm DC power leads with car lighter plug and crocodile clips		1.0m DC power lead with crocodile clips		1.0m DC power lead with ring terminals	
Dimensions	60 x 110 x 200mm		60 x 110 x 240mm		80 x 140 x 270mm	
Weight	776g		1kg		1.87kg	

AVSL Group Ltd
Containerbase, Barton Dock Road
Manchester M41 7BQ (UK)
T +44 (0) 845 270 2411
F +44 (0) 845 270 2433
E sales@avslgroup.com

www.avslgroup.com

*All information is correct at time of going to press,
we reserve the right to alter product specifications
at any time and for any reason without liability.
Product illustrations and effects may be simulated.
Errors and omissions excepted.
Copyright© 2012. AVSL Group Ltd.*