

A Power Inverter changes direct current (DC) power from a battery, usually 12V or 24V, into conventional mains alternating current (AC) power at 230V (Or 110V). This means that you can use an Inverter to operate all kinds of devices; kitchen appliances, lights, power tools, radios, TV's, computers and much more.

Pure Sine-Wave Inverters

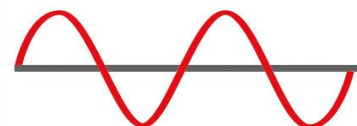
SEC UK Pure Sine-Wave Inverters provide exceptional output using a more sophisticated design, this is in order to simulate the smooth output of standard mains power. As most electrical products are designed to be powered by mains, pure sine-wave inverters are suitable for 99% of all applications, especially motorised devices where it is proven that pure sine-wave power will lengthen the products lifetime and run much quieter.

PSI Inverters come in many options from 500 watts up to 5000 watts. If you're unsure which Inverter is suitable for your application, get in touch with our technical and sales team for advice.

MODELS	PSI 500	PSI 1000	PSI 1500	PSI 2000	PSI 3000	PSI 4000	PSI 5000
Output Power Watts	500	1000	1500	2000	3000	4000	5000
Output Voltage AC	230 VAC						
Input Voltage DC	12 v (11-15v) / 24 v (21-29v) / 48v (42-58v)						
Frequency HZ	50 Hz / 60 Hz \pm 3Hz						
AV Voltage	AC output regulation: - 10%						
Output Wave-Form	Pure Sine-Wave (>3%) at rated input voltage						
Efficiency	85%						
Low Battery Voltage Alarm Volts	10.5 v \pm 0.5v / 21 \pm 1 v / 42 \pm 2 v						
Low Battery Voltage Shutdown Volts	10 v \pm 0.6c / 20 \pm 1 v / 40 \pm 2 v						
Over Temperature Shutdown	< 65 °C						
Available Protection	Overload protection, input reverse protection, short circuit protection						
Cooling Mode	By Fan - air cooled						
Protection	Battery Low Alarm, Battery Low Shutdown, Battery Polarity Connection						
Remote Switch	Remote Switch with cable						
USB	USB Output socket - 5V 500 mAmps						
Accessory	Cables & Fuses						
Dimension (L x W x H) mm	210 x 150 x 70	310 x 150 x 70	290 x 220 x 90	360 x 220 x 90	360 x 220 x 150	410 x 220 x 150	480 x 220 x 150
Weight (kg)	2.4	3.6	5.8	6.8	10.5	11.5	14.5



Pure Sine-Wave



The inverter draws its power from a 12V or 24V battery (preferably deep-cycle), or several batteries wired in parallel. The battery will need to be recharged as the power is drawn out of it by the inverter. The battery can be recharged by running the car or lorry motor or a generator, solar panels or wind turbine. Or you can use a battery charger plugged into an AC outlet to recharge the battery.

Modified Wave Inverters

SEC UK Modified Wave inverters are a lower cost alternative to Pure Sine-Wave inverters as they do not require the sophisticated system needed to smooth and render the output waveform. The only down side is that a modified sine-wave introduces harmonic distortion to inductive and any audio equipment. This is generally caused by the harsh 'on and off' phase changing in voltage, however they are still suitable for lights, TV's, microwave ovens and some tools.

MODELS	MSI 500	MSI 1000	MSI 1500	MSI 2000	MSI 3000	MSI 4000	MSI 5000
Output Power Watts	500	1000	1500	2000	3000	4000	5000
Output Voltage AC	230 VAC (110 VAC option available on MSI 2000)						
Input Voltage DC	12 v (11-15v) / 24 v (21-29v) / 48v (42-58v)						
Frequency HZ	50 Hz / 60 Hz \pm 3Hz						
Output Wave-Form	Modified Wave						
Efficiency	85 ~ 90%						
Low Battery Voltage Alarm Volts	10.5 v \pm 0.5v / 21 \pm 1 v / 42 \pm 2 v						
Low Battery Voltage Shutdown Volts	10 v \pm 0.6c / 20 \pm 1 v / 40 \pm 2 v						
Over Temperature Shutdown	< 65 °C						
Available Protection	Overload protection, input reverse protection, short circuit protection						
USB	USB Output socket - 5V 500 mAmps						
Remote Switch	Remote Switch/Mounting plate with cable as standard						
Cooling Mode	By Fan - air cooled						
Replaceable Fuse	30 Amp x 2	30 Amp x 4	30 Amp x 6	30 Amp x 8	25 Amp x 18	30 Amp x 16	30 Amp x 20
Accessory	Included	Alligator clips (excluded)					
Dimension (L x W x H) mm	226 x 108 x 62	275 x 208 x 77	325 x 208 x 77	345 x 230 x 108	420 x 230 x 108	520 x 230 x 108	520 x 230 x 108
Weight (kg)	0.89	2.4	3.2	4.9	6.2	8.6	9

