

SELECTRONIC SE42 INVERTER



SE42 SINE WAVE INVERTER FEATURES

The Selectronic SE42 sine wave inverter comes with many features not normally found in other inverters. An illuminated display on the front panel allows you to tailor your inverter to suit your needs, perform diagnostics, and take vital readings; no compromises needed. As if this is not enough, you also have the ability to upgrade to ENERGY MANAGEMENT Mk II as your needs develop. As you can see, there is now no need to limit the ability of your power system by the inability of your inverter.

No Compromise

All the vital parameters of the SE42 are fully adjustable making it compatible with any remote power system. These parameters are easily changed as required via the front panel which has an illuminated display to tell you what is being adjusted. No need to compromise your power system performance. Of course, all the settings are retained when the inverter is powered down.

Displays

The display on the front panel of the SE42 gives you vital information about your power system. You are able to display INVERTER STATUS, AC VOLTS, AC AMPS and BATTERY VOLTS.

Also the SE42 will alert you to the cause of any inverter shutdown by beeping an alarm and displaying a message containing the reason for the shutdown. As a shutdown occurs, the SE42 stores the cause of the shutdown in an 'Alarm Log' allowing you to view at a later date the cause of up to the last one hundred inverter shutdowns.

The SE42 will shutdown and protect itself if the battery volts are too high or too low, the load on the inverter is too high, or the temperature of the inverter becomes too high.

A set of diagnostic readings can also be accessed to assist in remote troubleshooting.

Safety and Standards

At Selectronic, we are serious about your safety so we have built the SE42 to conform to the Australian standards AS3100 and AS3108 (for electrical equipment and isolating transformers). This means the SE42 can be safely integrated into any normal electrical system. Naturally the SE42 conforms to the requirements of the Electromagnetic Compatibility framework (C tick), which means low radio frequency interference.

Simplicity

Whilst the SE42 is a very sophisticated inverter, it does not require complex programming. In most cases the SE42 will perform perfectly well with the factory settings. Just connect it up, switch on and your power problems have disappeared.

Modular Construction

This important feature of the SE42 allows for quick and easy on site repairs by any authorised person. Inconvenient down time is minimised.

Fully Upgradable

Don't lock yourself into an inverter that cannot expand with your remote power system needs. As your finances allow or as your needs change, the SE42 can be upgraded to Energy Management Mk II.

This system is a fully featured monitoring and control system that allows you to keep track of vital system parameters, perform control functions and allow remote communication. SA42 models which include the EM Mk II fitted ex factory are also available.

Applications

The SE42 is so versatile it can provide the user with a source of independent power for virtually any application. Applications include:

- Home
- Boats
- Caravans
- Motor homes
- Tradesman
- Business applications

Optional Energy Management Mk II

Extra features included in this option over the original Energy Management are:

- Four control outputs.
- Replacement of interface board with covered plug in screw terminals.
- Fully adjustable Solar regulator controller option.
- Automatic zero point setting for percentage charge in battery.



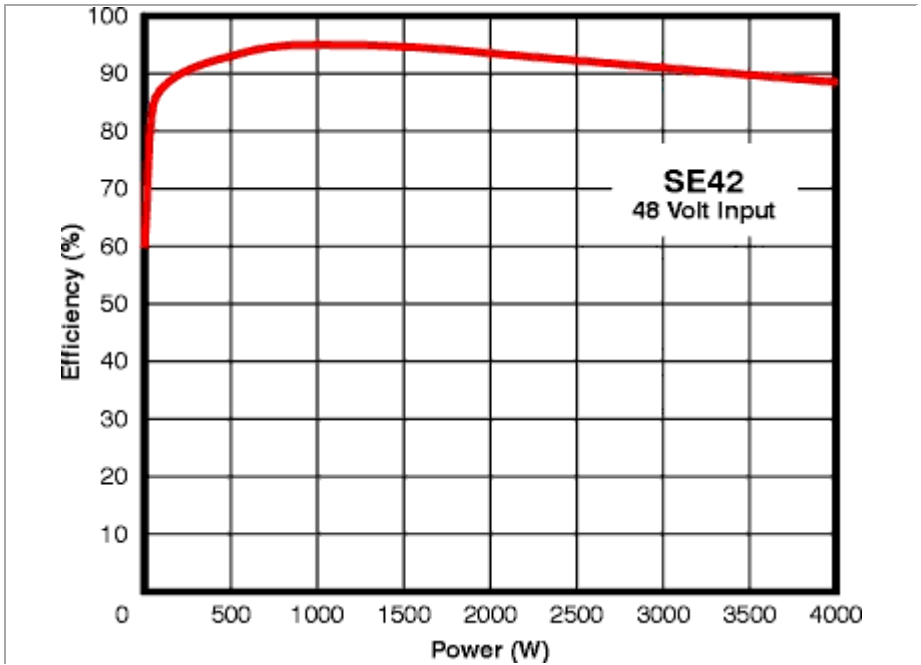
- Automatic battery efficiency compensation.
- Load profile logging.
- Modem interface output for remote control of inverter and system via modem & remote computer.

SELECTRONIC SE42 INVERTER SPECIFICATIONS

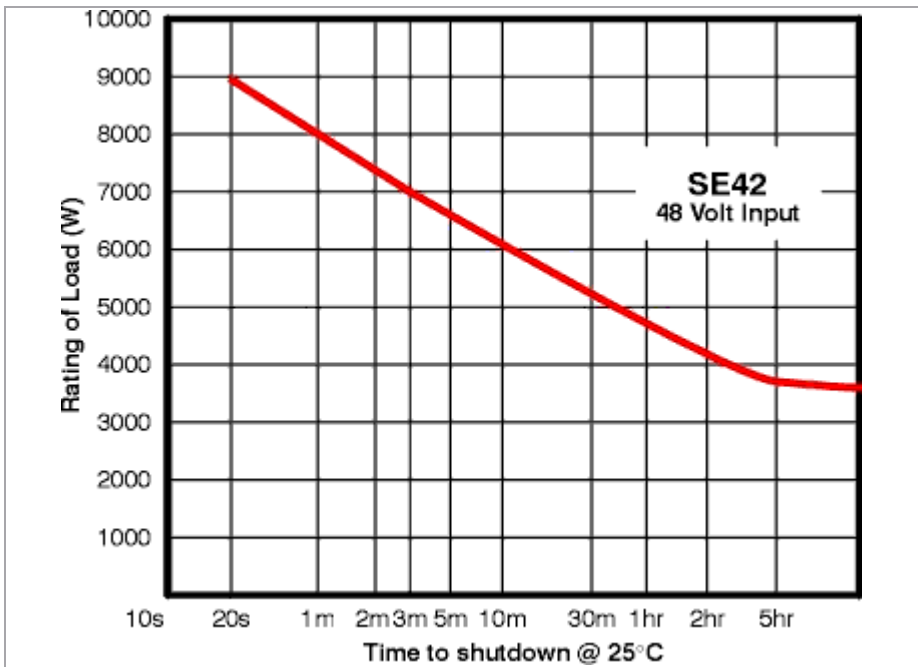
ELECTRICAL

PARAMETER	SE42 Inverter	CONDITION
Output Power @ 25 deg C Ambient	3,600W 5,500W 10,000W	Max Continuous 1/2 Hour Rating Max Surge
Output Power @ 40 deg C Ambient	3,300W 5,200W 10,000W	Max Continuous 1/2 Hour Rating Max Surge
Voltage Input Range	40-68V DC	Range
Input Current	0.05A DC 0.40A DC 78A DC 210A DC	Stand By Inverter ON - No Load Max Continuous Max Surge
Demand Start Sensitivity Response Time	3-30W 1 Second Max	User Adjustable
Low Voltage Shutdown	38 - 46V DC	User Adjustable
High Voltage Shutdown	60 -68V DC	User Adjustable
Output Voltage	Adjustable from 220 to 240V AC +/- 4%	@ Nominal DC Input, No Load to Full Load
Output Current	15A AC 41A AC	Max Continuous Max Surge
Output Wave Shape Output Frequency Total Harmonic Distortion		True Sine Wave 50Hz +/- 0.01% < 4%
Power Factor Limitations		Nil

Efficiency



Time to Shutdown



Input/Output Isolation

1875 V AC

Memory Retention

Permanent

Operating Temperature Range

-10 °C to 50 °C

Conforms to standards

AS3100 (wiring), AS3108, AS1044 (EMC), C tick

MECHANICAL

Size

500mm wide x 180mm high x 370mm deep

Weight	29kg
Weight Packed	32kg
Input Lead Length	1.5 metres
Output Wiring Method	Rear three terminal junction box with conduit knock outs
Output Socket	Dual switched GPO
Chassis	Powder coated zinc steel (Wedgwood Blue)
DC Isolation	Single Pole Circuit Breaker
Warranty	5 year parts and labour (Conditions apply)

Through a policy of continued development, specifications or sizes quoted are subject to change without notice. Note: All power ratings are at 1.0 Power Factor, and apply at 25°C unless otherwise stated.

WARNING - All Remote Power System installations must comply with the relevant requirements of your state or national standards. It is imperative that only Registered Electrical Contractors are permitted to install or check any appliance or wiring in your installation.