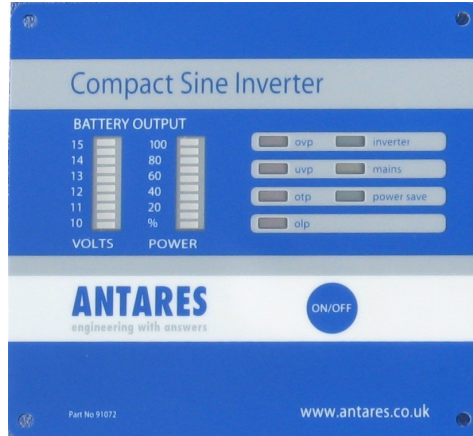


CSR Inverter Remote Options

MANUAL AND FULLY AUTOMATIC REMOTE CONTROL OPTIONS



Remote display panel



Inline controller

Inverters are becoming more prevalent as “mains” is often required as part of auxiliary power systems on vehicles. It may be a relatively small amount just to recharge power tools or a laptop computer, but if you have a 13Amp plug, you need “mains”.

No Aux battery/split charge required!
For low power applications the inverter can be safely connected to the engine start battery, by using the in-line controller.

It is often difficult, and sometimes undesirable to have to direct “hands-on” access to the inverter simply to operate the power switch. In response to this Antares have developed options for inverters of output power 700W and upwards.

Antares offer two options:

- 1) Remote on/off display (top picture),
- 2) In-line controller (lower picture)

Remote Control/Display Panel

Key features:

- Flush mounting
- Bar chart displays for battery voltage and for load percentage
- Diagnostic LEDs
 - Power on
 - Over-voltage
 - Under-voltage
 - Over temperature
 - Overloaded output
 - Power save
- Push button on/off control
- Ignition-inhibit/power-on input
- Allows inverter to be discreetly mounted.

Inline controller

Key features:

- Small and compact,
- easy to install, only one connection required
- Very cost effective

Save money, time and cost!

The in-line controller allows “battery skimming” of the engine start battery, only allowing the inverter to work when the battery is fully charged. This means that the traditional split charge and 2nd battery are no longer required.

System design

The in-line controller is software controlled, which allows customisation for individual customer requirements. Some examples are on the following page.

Antares support

Antares have a reputation for supporting our customers and products, taking great pride in giving engineering service. Please call us to discuss your requirements.

Antares TDC
Knaves Beech Business Centre
Davies Way
Loudwater
HIGH WYCOMBE
HP10 9QR UK

www.antares.co.uk
email: info@antares.co.uk
tel: +44 (0)1628 535442
fax: +44 (0)1628 535441

ANTARES
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Basic format (standard programme).

The inverter “follows” the input voltage:

- apply a raised voltage to the input, and the inverter will be switched on,
- Remove the raised voltage from the input and the inverter will switch off.

Typical application:

Simple on/off control.

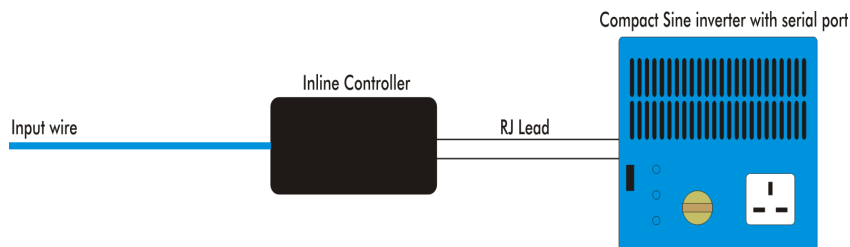
Using your own switch, run a wire from battery to a dashboard switch, then to the ILC.

When the switch is closed the battery voltage is seen by the ILC and the inverter is powered up, and when the switch is opened, the inverter is powered off.

If the feed to the switch is from the ignition, or D+, then the inverter will only work when ignition or D+ is present and the switch is on.

Support and customisation

Whatever your needs Antares support engineers are available to discuss the solution—call us for details.



Enhanced operation: (programmed to suit application):

Antares can program a voltage, or a delay, or both, into an in-line controller in order to enhance the operating characteristics of the whole vehicle.

Example: 1 Run inverter from engine-start battery safely.

(Battery Skimmer)

Some installations of inverters are connected to the main engine start battery, and whilst this would not normally be recommended, in light-duty applications this may be permissible, but there is a clear risk that when the inverter is used, the engine-start battery will be discharged to a point where the vehicle cannot be started.

Solution: Programme a “turn off voltage” of 12.2V into the ILC. Result: Inverter can be used, and will be turned off when battery volts drop to 12.2V, and the engine can still be started. The

inverter is restarted when the volts rise to 13.1V because the vehicle is driving back from site.

Example 2: Add delay

Only run when engine is running. (After engine has started)

Some installations are for occasional use of high-power inverters. By utilising the ILC, an aux battery can be avoided, providing the alternator is big enough to power the inverter. But wait until engine cranking has finished before starting the inverter. eg: 220Amp alternator, 2kW inverter. Max power draw = 190Amp

Solution: Connect input to D+ signal from alternator, and programme a delay of say 15 seconds into the ILC. Result: Inverter will only come on when D+ has been present for 15 seconds, so the heavy draw from the starter motor has finished, and now the inverter will switch on.

Description	Function	12V	24V
Remote Display	Remote ON/OFF button, Status LEDs	91072	91073
	Comes with 50ft cable to connect to inverter serial port		
	Spare cable for remote display panel	70600	70600
In line controller (std)	Switches on inverter when voltage applied	70577	70596
Battery Skimmer	Switches on inverter with charging voltage present	70630	TBC
The inline controller can be programmed to meet your requirements			