

CT-1 Battery Cut-off Timer

FEATURES:

Protects vehicle battery and equipment from excessively low battery voltage.

Allows the operation of battery powered equipment (eg. two-way radios) for a fixed pre-set time after the vehicle ignition is switched off - no more flat batteries.

High current rating (30 Amp) relay contact for switching the controlled voltage.

Tri-colour LED shows operational status of unit.

Time periods anywhere between 1 minute and 63 Hours and 45 minutes can be selected.

Simple installation - only five connections including switched relay contact.

The CT-1 cut-off timer was designed for use with vehicle installed equipment where the equipment is required to be operated even while the vehicle ignition key is removed.

Typical applications include two-way radios, in-car mobile (cellular) telephones, flashing or rotating warning lights, headlights or spotlights, computers,

GPS receivers, or any other equipment which would be powered directly from the vehicle battery. Useful for solar powered sites to prevent damaging over-discharge of the batteries.

In stand-by mode the LED on the CT-1 shows steady RED.

In operation the CT-1 cut-off timer monitors it's control input line which would normally be connected to the vehicle ignition switch. While the ignition switch is on the LED on the CT-1 shows steady GREEN and the output is also switched on, providing the battery voltage is above the low voltage cut-out point.

When the ignition switch is turned off the CT-1 starts it's cut-off timer and the LED flashes GREEN. After the end of the selected period the CT-1 output is turned off and the LED changes back to steady RED (stand-by mode).

If at any time the battery voltage falls below the pre-set low voltage cut-out point then the LED on the CT-1 flashes RED.

If the ignition switch is off when the battery voltage rises to above the pre-set high voltage cut-in point then the CT-1 will return to stand-by mode and the LED will show steady RED.

If the ignition switch is on when the battery voltage rises to above the pre-set high voltage cut-in point then the LED will rapidly flash alternate RED/GREEN for the period of time determined by the cut-in timer. At the end of this period the CT-1 output will be switched on and the LED will show steady GREEN.

SPECIFICATIONS

Supply voltage	Nominally 13.8volts DC, ~250mA max (output relay on), ~20mA idle
Connections	Power, Ground, Control (eg. Ignition switch), Relay contact in, Relay contact out
Timer period	0 minute to 4 Hours 15 minutes in 1 minute steps 0 minutes to 21 Hours 15 minutes in 5 minute steps 0 minutes to 42 Hours 30 minutes in 10 minute steps 0 minutes to 63 Hours 45 minutes in 15 minute steps
Cut-out voltage	Nominally 11.5 volts - preprogrammed to your requirements or field programmable
Cut-in voltage	Nominally 12.5 volts - preprogrammed to your requirements or field programmable
Cut-in timer	0 to 155 seconds in 5 second steps

Specifications subject to change without notice

CT1-04/05



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