SAMLEX EUROPE® B.V.

IDC-30 UNI

Switch Mode Converter DC-DC
Galvanic Isolated
30 Watts

Extra wide input range

Owners Manual

Features

IDC-30 UNI

- Galvanically isolated input and output
- Very low power consumption
- Simple installation
- Short-circuit resistant
- Adjustable output voltage
- Extra wide input range

Purpose

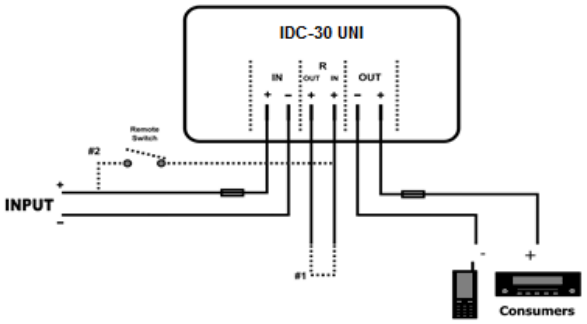
The IDC-30 UNI, hereinafter IDC, is a galvanically isolated converter with a universal (wide) input and output voltage.

Installation

Follow the following steps and the connection diagram when connecting the IDC.

1. Connect the power supply/battery to the IN+ and IN- of the IDC.
2 (option #1). Connect R-out with R-in.
3 (option #2). Connect R-in with Input+ using a switch.
4. Connect the positive (+) terminal of the power supply/battery to the IN+ of the IDC.
5. Connect the negative (-) terminal of the power supply/battery to the IN- of the IDC.

Wiring diagram



Warnings:

- The product must only be connected by skilled fitters/mechanics who are aware of the regulations for working with high battery voltages.
- Using inferior connection material and/or wiring that is too thin may damage the product.
- A short circuit between the positive and negative terminals of the battery may severely damage your system.
- Always use fuses of the correct value.

Operation

There are two ways to switch on the IDC.
Option 1. Connect Rin to Rout (using the enclosed jumper cable).
Option 2. Connect Rin to Uin+ using a switch.

Output voltage

The output voltage can be set by using a potentiometer on the back of the IDC. It is set to 12.5 V as standard. It can be tightened by inserting a screwdriver through the left ventilation slot of the rear cover. If a voltmeter is connected to the output, the voltage can be set as required.

Technical details

Input

Supply voltage	7.5 V – 32.0 V DC
Remote input voltage	5.0 V – 32.0 V DC
Remote input current (max.)	±0.3 mA

General

Connections	6x 6.3 mm Faston
Cable advice	2.5 mm^2
h x w x d	50 x 87x 86 mm
Weight	242 g
Operational temperature	-10 °C … +40 °C
Standby current	±13 mA

Output

Output (can be set) 12.5 V – 28.0 V

Voltage		Current
In	Out	Out
24.0 V	12.5 V	3.0 A
12.0 V	12.5 V	2.2 A
7.5 V	12.5 V	1.5 A
24.0 V	24.0 V	2.0 A
12.0 V	24.0 V	1.0 A
7.5 V	24.0 V	0.8 A