## Product Specification Date: September 30<sup>th</sup>, 2009

## Product SDC 60/30-12



Type: SDC 60/30-12

**Step-Down Converter DC/DC** 

**Description**: Versatile switching regulator with a single adjustable stabilized output from a DC source.

The efficiency is essentially independent of input voltage.

Output current need not be derated with increasing input voltage. The open version guarantees many possibilities of mounting.

**Features :** - Adjustable output voltage

Short circuit protection
Connecting in parallel
Stand-by function
Remote ON/OFF
High efficiency
Shake proof

Safety: acc. to EN 60950

Specifications:

Input

Input voltage range : 10...60Vdc No load input current : 40mA

Remote ON/OFF: Inhibit >3V / Operate <1V

Output

Output voltage: 4.5...30Vdc (set with potentiometer R7)

Output current : 0...12A
Tolerance : <3%
Line regulation : <2%
Ripple and noise : 150mVpp
Temperature coefficient : 3mVdc/°C

Input/Output Differential: 3.5Vdc (Uin >15Vdc) / 5Vdc (Uin <15Vdc) Remote sense: remove JP2 for remote sense operation

Output current limit: 17A ±10%

General

Efficiency: typical 75% Switching frequency: 25kHz Weight: 0.4kg

Dimension W x H x D: 127mm x 51mm x 137mm

**Environment** 

Thermal performance : 0°C...+50°C (max. heat sink temperature: +80°C)

Relative humidity: 5%...80% no dewfall

**Mechanical notes** 

Remove JP1 to synchronise by master converter

Remove JP2 for -Sense (and +Sense) No changes on PCB for +Sense (only)

**Important Hints** 

The module should be fixed at the heat sink *and* the opposite edges of the PCB; an elastic mounting is highly recommended. The efficiency of the heat sink must be sufficient.

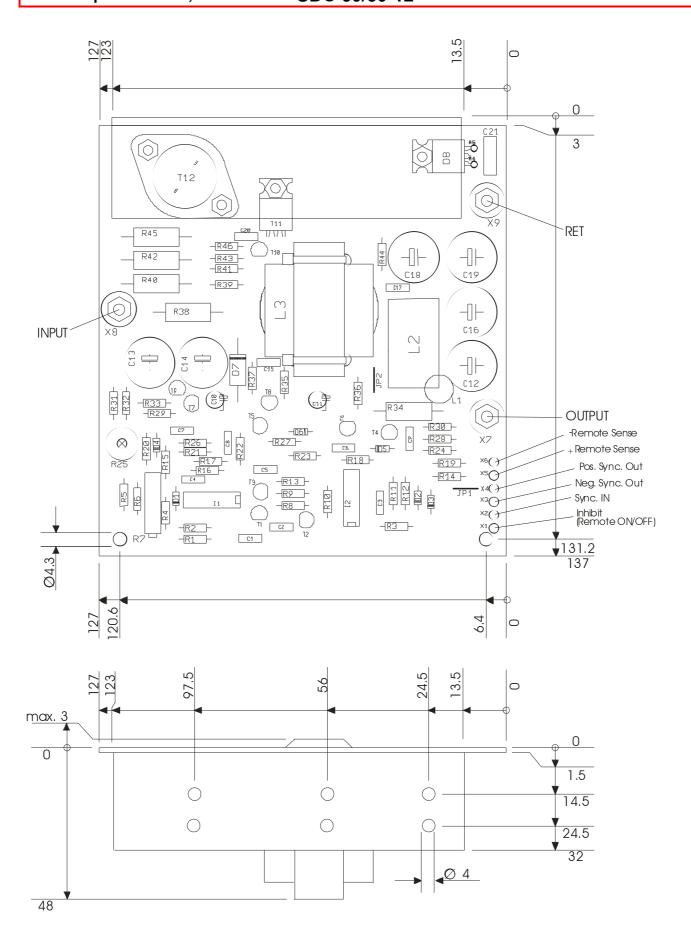
The contacts (INPUT+, OUTPUT+ and GND/RET) are realized by metric stud bolts (diameter: 4mm).

The feedthroughs are intended for the signal contacts.



Fig. 1 (shows SDC 60/30-12 without the hot melt glue)





All measurements in the draft above are in millimetres (mm).