



Type : SDC 60/30-12

Product Range : Step-Down DC/DC
Converter

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 for mounting.

Features:

- Adjustable output voltage
- Short circuit protection
- Connecting in parallel
- Stand-by function
- Remote ON/OFF
- High efficiency

Specification

Input

Input voltage range: : 10...60Vdc
No load input current : 40mA
Remote ON/OFF : Inhibit >3V , Operate <1V

Output

Output voltage : 4.5 to 30Vdc (set with R7)
Output current : 0...12A
Tolerance: : < 3%
Line regulation: : < 2%
Ripple and noise : 150mVpp
Temperature coefficient : 3mV/°C
Input/Output Differential : 3.5V(Uin > 15V), 5V(Uin < 15V)
Remote sense : Remove JP2 for remote sense operation
Output current limit (factory set) : 17A ±10%

General

Efficiency : 75% typical
Switching frequency : 25KHz
Weight : 0.4 kg
Dimension W x H x D : 127 x 24 x 136 mm

Environment

Thermal performance : 0°C to +50°C Max. Heat sink temperature : +80°C
Relative humidity : Non - condensing 5% to 80%

Safety : acc. to EN 60950

Mechanical notes

remove JP1 for synchronising device by master converter
remove JP2 for sense operation

only + sense : no changes on PCB
- sense (and + sense) : remove JP2

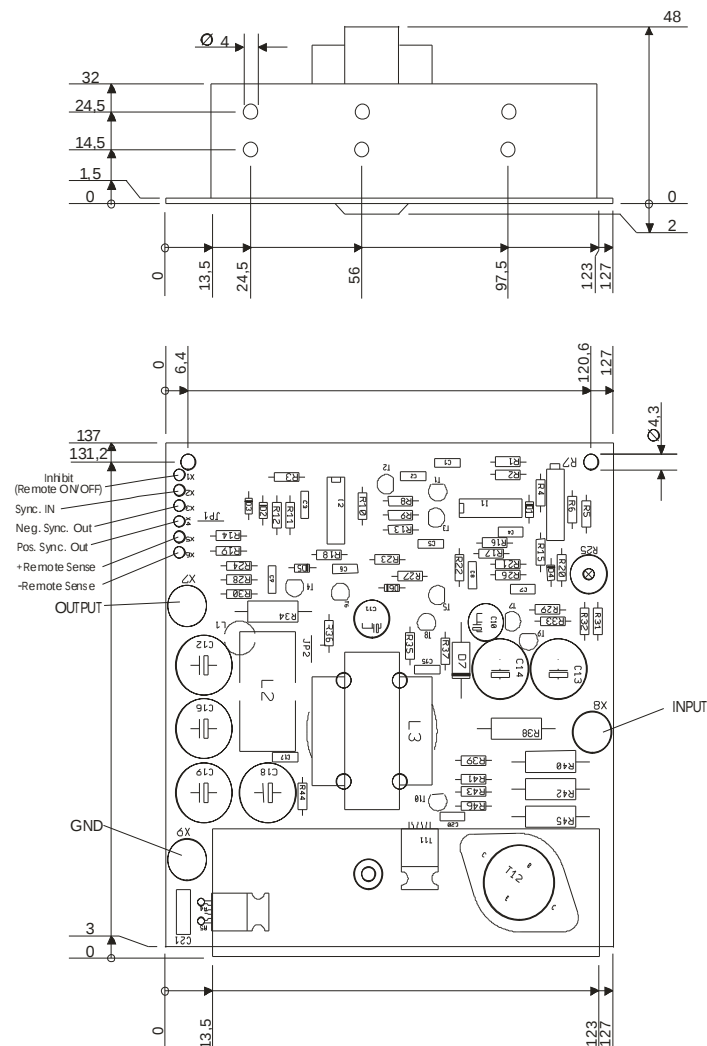
Important Hints

With the help of spacers the module should be fixed at the heat sink.

The efficiency of the heat sink must be sufficient.

The contacts (INPUT+, OUTPUT+ and GND) will be guaranteed by stud bolts (diameter: 4mm).

The feedthroughs are intended for the signal contacts.



Pin Connections

X8: Input Voltage
X7: Output Voltage
X9: GND
X6: - Remote Sense
X5: +Remote Sense
X4: Pos. Sync Out
X3: Neg. Sync Out