



Type : SDC 60/15-20

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 15Vdc  
Output current : 0...20A  
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 JP1 for remote sense operation  
Output current limit (factory set) : 24...27A ( however , when units are used in parallel configuration, the current limit should be set at 20A with R25 on PCB)

### General

Efficiency : 75% typical  
Switching frequency : 25KHz  
Weight : 0,4 kg  
Dimension W x H x D : 127 x 45 x 136 mm

### Environment

Thermal performance : 0°C to +70°C Max. Heat sink temperature : +80°C  
Relative humidity : Non - condensing 5% to 80%

Safety : acc. to EN 60950

**Mechanical notes**

remove JP2 to synchronise to other regulators  
remove JP1 for remote sense

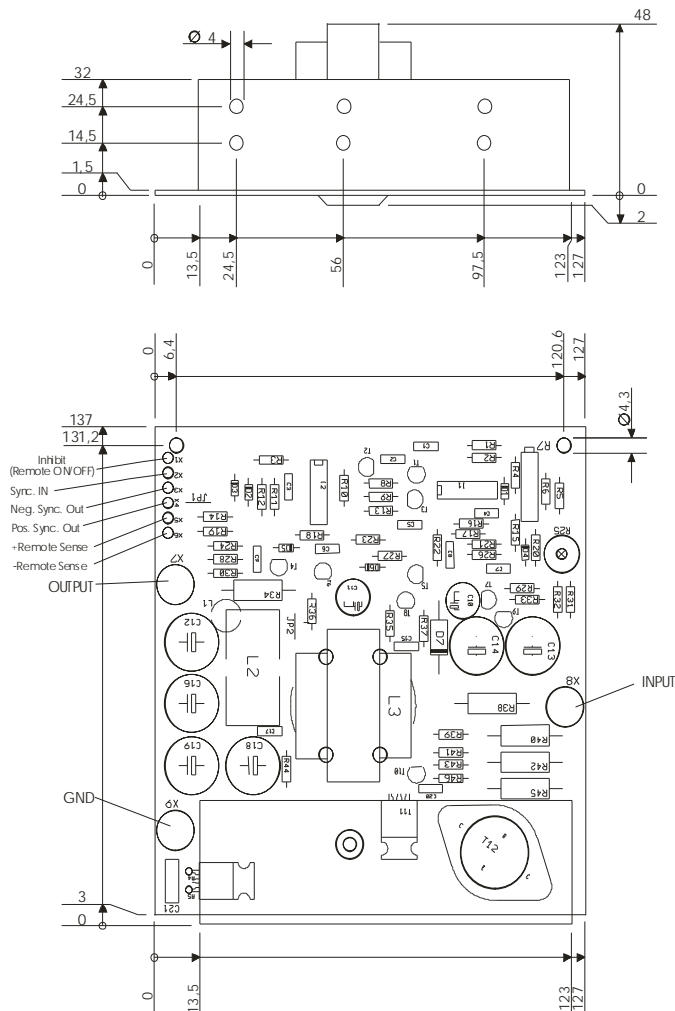
**Important Hints**

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 (remove JP1 for remote )
- X5: +Remote Sense (remove JP1 for remote )
- X4: Pos. Sync Out ( remove JP2 for parallel function)
- X3: Neg. Sync Out ( remove JP2 for parallel function)