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%

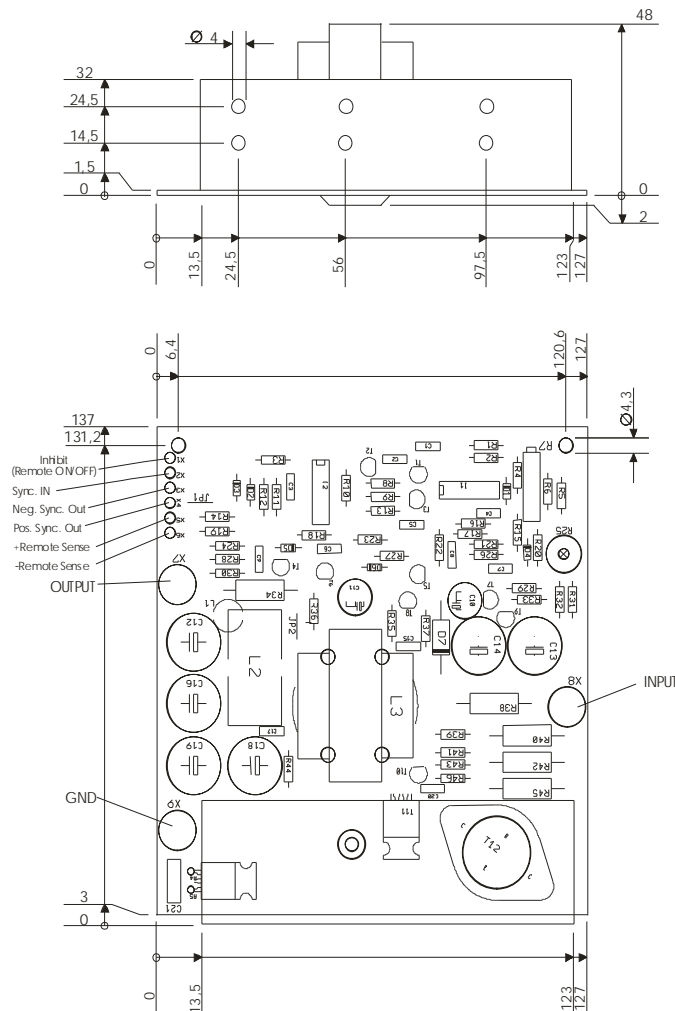|	
Safety	: acc. to EN 60950

subject to change without notice

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)	

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