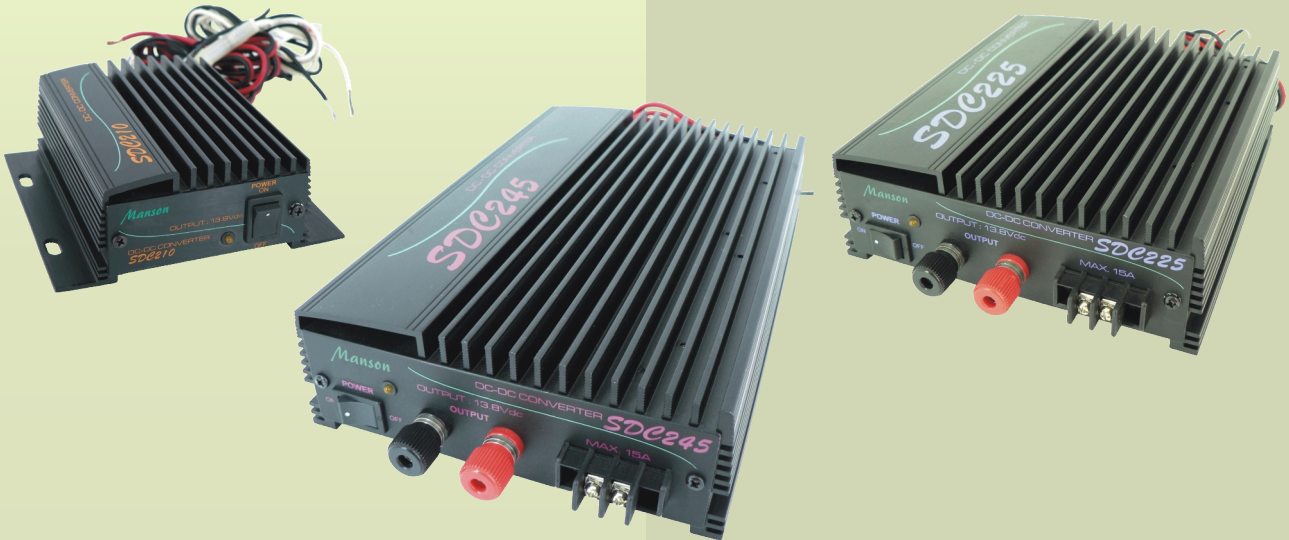


DC - DC CONVERTER

SDC - 200 Series

13.8VDC Switching Mode Non-Isolated Step Down Converter

Manson®



Description

This series of switching mode DC-DC reducer-converter are built with a heavy anodized aluminum heat sink housing. The switching mode conversion technology results high efficiency, less heat, and a good low line and load regulations.

The on-off power switch saves battery power without manual disconnection input hard wiring when the car is switched off.

The SDC-225 & 245 have additional auxiliary output for low power equipment as well .

Features

- 13.8V DC regulated output voltage
- 22 - 30V DC input voltage
- High efficiency 88%
- High power density
- Output over voltage protection
- Overload and short circuit protection
- LED power on indicator
- EMC INTERFERENCE IMMUNITY
- Power on-off switch

Specifications

Models	SDC - 210	SDC - 225	SDC - 245
Input Voltage Range	22 - 30VDC		
Output Voltage	13.8VDC		
Continuous Output Current	8A	20A	40A
Maximum Output Current	11.5A	25.5A	45A
Ripple & Noise (r.m.s.)	<25mVrms	<20mVrms	<25mVrms
Load Regulation (0-100% load)	≤500mV	≤50mV	≤80mV
Line Regulation (20-30V variation)	≤20mV	≤20mV	≤50mV
Efficiency	>85%	>87%	>84%
Input Connection Type	Cable	Cable	Cable
Output Connection Type	Cable	Terminal	Terminal
Indicators	LED Power		
Cooling System	Natural Convection	Natural Convection	Variable Speed Thermally
Protection Devices	Overload, Over Voltage, Short Circuit		
Input Fuse Type	Standard Car Blade Fuse		
CE Approvals	EN 55014 EN 55022		
e-Mark Approvals	e11 02 1522	e11 02 1524	e11 02 1521
Dimensions (WxHxD)	125x47x120 mm 4.9x1.9x4.7 inch	156x57x168 mm 6.1x2.2x6.6 inch	156x57x240 mm 6.1x2.2x9.5 inch
Weight	0.55 kg 1.2 lbs	1.4 kg 3.1 lbs	2.2 kg 4.9 lbs
Accessory	Nil	Mounting Bracket	Mounting Bracket

■ All values are based on the Standard ambient Temperature 25°C and Pressure 0.1Mpa.

■ SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT PRIOR NOTICE