



# SAMLEX POWER PRODUCTS

## SDC Series DC-DC Converters

### FEATURES

- Advanced switchmode design*
- Mount in almost any location*
- Compact and light weight*
- Reverse polarity protection*
- High efficiency*
- Cycle by cycle current limiting circuit*
- Overvoltage protection*
- Short circuit protection*
- 2 Year Warranty*

### APPLICATIONS

- Earth moving equipment*
- Heavy trucks*
- Buses*
- Marine vehicles*
- CB radios*
- 12 Volt lighting systems*
- AM/FM sound systems*



**12 Amps**

### TECHNICAL SPECIFICATIONS

Model	SDC-12
CAUTION! THERE IS NO ISOLATION BETWEEN THE INPUT AND THE OUTPUT INPUT AND OUTPUT HAVE A COMMON NEGATIVE	
Input to Output Isolation	Not isolated. Input and output connections have a common negative
Input Voltage	20 to 32 VDC
Output Voltage	13.8 VDC $\pm$ 0.1 V
Output Voltage Regulation	3%
Input Current at No Load	< 5 mA
Output Current	
Continuous	12 A
Current Limit *	12.5 A
Output Ripple and Noise	less than 50 mV RMS
Efficiency	~ 92%
Operating Ambient Temperature	- 20° to + 30° C (derate linearly to zero at 70° C)
Humidity	Max. 95%, non condensing
Protections:	
Overload	By Current Limiting
Over Heating	Drop in Output Voltage
Reverse Polarity	Fuse Protection, 5 A
Over Voltage	Varistor (also protects against load dump)
Input Side Fuse	12 A (inside the unit)
Safety and EMC Standards:	
Emission	EN50081-1
Immunity	EN50082-1
Automotive Directive	95/45/EC
Input / Output Connections	Terminal Block - 6.3 mm male flat tab, quick connect
Dimensions (H x W x D)	1.9" x 3.5" x 3.9"
Weight	0.6 lbs

\* Note: In current limit condition, the output voltage will drop if the current drawn increases beyond the current limit value of 12.5 A

Technical Specifications subject to change without notification.

To view a full selection of Samlex products visit our website at [www.samlexamerica.com](http://www.samlexamerica.com)  
or contact us: 1 (800) 561-5885 or (604) 525-3836