



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*



30 Amps

TECHNICAL SPECIFICATIONS

Model	SDC-30
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	< 25 mA
Output Current	
Continuous	30 A
Current Limit *	35 A
Output Ripple and Noise	less than 50 mV RMS
Efficiency	~ 92%
Operating Ambient Temperature	- 20 ^o to + 30 ^o C (derate linearly to zero at 70 ^o C)
Humidity	Max. 95%, non condensing
Protections:	
Overload	By Current Limiting
Cooling	Temperature controlled fan
Over Heating	Drop in Output Voltage
Reverse Polarity	Fuse Protection, 30 A
Over Voltage	Varistor (also protects against load dump)
Input Side Fuse	30 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 5.9" / 49 x 88 x 151 mm
Weight	1.5 lbs / 0.6 Kg

* Note: In current limit condition, the output voltage will drop if the current drawn increases beyond the current limit value of 35 A

Technical Specifications subject to change without notification.