



## DC-DC Step-Down Converters

Model  
SDC-23  
20 Amps

### Design Features

- Advanced switch-mode design
- Converts 24 VDC to 12 VDC
- Compact and light weight
- High efficiency
- Current limiting circuit
- Over voltage protection
- Short circuit protection
- Reverse polarity protection
- Mount in almost any location

## 2 YEAR LIMITED WARRANTY

MODEL NO. SDC-23		
<b>⚠ CAUTION! There is no isolation between the input and the output sides. Input and output have common Negative.</b>		
OUTPUT	OUTPUT VOLTAGE	13.8 VDC $\pm$ 0.1V
	CONTINUOUS OUTPUT CURRENT	20A
	PEAK OUTPUT CURRENT	23A
	CURRENT LIMIT	24 $\pm$ 0.5A
	LOAD REGULATION	< 0.5%
INPUT	INPUT VOLTAGE	20-35 VDC
	INPUT CURRENT AT NO LOAD	< 150 mA
	LINE REGULATION	< 0.5%
	EFFICIENCY (at maximum output)	> 88%
	RIPPLE	< 50 mV P-P @ 20A
FUSES	NOISE	< 120 mV P-P @ 20A
	INTERNAL INPUT FUSE (Inside the fuse holder)	15A, 250V (Bussmann AGC-15 or equivalent)
	EXTERNAL INPUT FUSE (at the battery end) (Not supplied)	15A, 32V (Automotive Blade Type : ATO/ATC)
	EXTERNAL OUTPUT FUSE (Not supplied)	20A, 32V (Automotive Blade Type : ATO/ATC)
	PROTECTIONS	<b>Output overload / short circuit:</b> <ul style="list-style-type: none"> <li>• Output current will be limited to 24 <math>\pm</math> 0.5A</li> <li>• Output voltage will drop</li> </ul> <b>Input over voltage:</b> Input side fuse(s) will blow at > 37 VDC <b>Output over voltage:</b> Input side fuse(s) will blow at > 16.5 $\pm$ 0.5 VDC <b>Reverse polarity on input side:</b> Input side fuse(s) will blow
WIRES	INPUT WIRE SIZE	#10 AWG
	OUTPUT WIRE	#8 AWG
ENVIRONMENT	OPERATING ENVIRONMENT	Indoor use
	OPERATING TEMPERATURE RANGE	0°C - 40°C / 32° - 104°F
GENERAL	DIMENSIONS, MM (W x D x H)	198 x 122 x 60
	DIMENSIONS, INCHES (W x D x H)	7.8 x 4.8 x 2.4
	WEIGHT, KG	1.0
	WEIGHT, LB	2.2

NOTE: Specifications are subject to change without notice

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