



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		
⚠ CAUTION! There is no isolation between the input and the output sides. Input and output have common Negative.		
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
	NOISE	< 120 mV P-P @ 20A
FUSES	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	Output overload / short circuit: <ul style="list-style-type: none"> • Output current will be limited to 24 \pm 0.5A • Output voltage will drop Input over voltage: Input side fuse(s) will blow at > 37 VDC Output over voltage: Input side fuse(s) will blow at > 16.5 \pm 0.5 VDC Reverse polarity on input side: 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

12001-SDC-23-0618