



## DC-DC Step Down Converters

Model  
SDC-30  
30 Amps

### Design Features

- Advanced switchmode design
- Mount in almost any location
- Compact and light weight
- Reverse polarity protection
- High efficiency
- Cycle by cycle current limiting circuit
- Over voltage protection
- Short circuit protection

## 2 YEAR LIMITED WARRANTY

MODEL NO.		SDC-30
<b>CAUTION! THERE IS NO ISOLATION BETWEEN THE INPUT AND THE OUTPUT INPUT AND OUTPUT HAVE A COMMON NEGATIVE</b>		
<b>VOLTAGE</b>	<b>INPUT TO OUTPUT ISOLATION</b>	Not isolated. Input and output connections have a common negative
	<b>INPUT VOLTAGE</b>	20 to 32 VDC
	<b>OUTPUT VOLTAGE</b>	13.8 VDC $\pm$ 0.1 V
	<b>OUTPUT VOLTAGE REGULATION</b>	3%
	<b>INPUT CURRENT AT NO LOAD</b>	< 25 mA
<b>OUTPUT CURRENT</b>	<b>CONTINUOUS</b>	30 A
	<b>CURRENT LIMIT *</b>	35 A
<b>ENVIRONMENT</b>	<b>OUTPUT RIPPLE AND NOISE</b>	less than 50 mV RMS
	<b>EFFICIENCY</b>	~ 92%
	<b>OPERATING AMBIENT TEMPERATURE</b>	- 20° to + 30° C (derate linearly to zero at 70° C)
<b>PROTECTIONS</b>	<b>HUMIDITY</b>	Max. 95%, non condensing
	<b>OVERLOAD</b>	By current limiting
	<b>COOLING:</b>	Temperature controlled fan
	<b>OVER HEATING</b>	Drop in output voltage
	<b>REVERSE POLARITY</b>	Fuse protection, 30 A
<b>SAFETY AND EMC STANDARDS</b>	<b>OVER VOLTAGE</b>	Varistor (also protects against load dump)
	<b>INPUT SIDE FUSE</b>	30 A (inside the unit)
	<b>EMISSION</b>	EN50081-1
<b>GENERAL</b>	<b>IMMUNITY</b>	EN50082-1
	<b>AUTOMOTIVE DIRECTIVE</b>	95 / 45 / EC
	<b>INPUT / OUTPUT CONNECTIONS</b>	Terminal Block - 6.3 mm male flat tab, quick connect
<b>GENERAL</b>	<b>DIMENSIONS, MM (L x W x H)</b>	48 x 89 x 151
	<b>DIMENSIONS, INCHES (L x W x H)</b>	1.9 x 3.5 x 5.9
	<b>WEIGHT, KG</b>	0.6
	<b>WEIGHT, LB</b>	1.5

Specifications are subject to change without notice

\*NOTE: In current limit condition, the output voltage will drop if the current draw increases beyond the current limit value of 35A