



## DC-DC Step Down Converters

Model  
SDC-5  
5 Amps

### Design Features

- Advanced switch-mode 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-5

**CAUTION! THERE IS NO ISOLATION BETWEEN THE INPUT AND THE OUTPUT. INPUT AND OUTPUT HAVE A COMMON NEGATIVE**

VOLTAGE	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	5A
	CURRENT LIMIT *	5.5A
ENVIRONMENT	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)
PROTECTIONS	HUMIDITY	Max. 95%, non condensing
	OVERLOAD	By current limiting
	OVER HEATING	Drop in output voltage
	REVERSE POLARITY	Fuse protection, 5A
	OVER VOLTAGE	Varistor (also protects against load dump)
SAFETY AND EMC STANDARDS	INPUT SIDE FUSE	5A (inside the unit)
	EMISSION	EN50081-1
	IMMUNITY	EN50082-1
GENERAL	AUTOMOTIVE DIRECTIVE	95 / 45 / EC
	INPUT / OUTPUT CONNECTIONS	Terminal Block - 6.3 mm male flat tab, quick connect
	DIMENSIONS, MM (H X W X D)	48 x 89 x 69
	DIMENSIONS, INCHES (H X W X D)	1.9 x 3.5 x 2.7
	WEIGHT, KG	0.17
	WEIGHT, LB	0.4

NOTES: 1. Specifications are subject to change without notice

\* In current limit condition, the output voltage will drop if the current drawn increases beyond the current limit value of 5.5 A