



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