

DC-DC Step Down Converters

Model
SDC-5
5 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

Applications

- Earth moving equipment
- Heavy trucks
- Buses
- Marine vehicles
- CB radios
- 12 Volt lighting systems
- AM / FM sound systems

2 YEAR 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 | 5 A |
| | CURRENT LIMIT * | 5.5 A |
| 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, 5 A |
| | OVER VOLTAGE | Varistor (also protects against load dump) |
| SAFETY AND EMC STANDARDS | INPUT SIDE FUSE | 5 A (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 (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 |

Specifications are subject to change without notice

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