



8A
samlexamerica®



DC-DC Step Down Converter

Model
IDC-100D-12
8 Amps

Design Features

- Fully isolated
- Short circuit protected
- Current limited

2 YEAR WARRANTY

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| | MODEL NO. | IDC-100D-12 |
| INPUT | INPUT VOLTAGE RANGE | 60 - 120 VDC |
| | OUTPUT VOLTAGE | 12.5 VDC |
| | OUTPUT CURRENT | 8A |
| | INPUT TO OUTPUT ISOLATION | Yes. > 400V RMS |
| | OUTPUT RIPPLE & NOISE | < 50 mV RMS |
| | PEAK EFFICIENCY | 85% |
| | COOLING | By temperature controlled fan |
| | OPERATING TEMPERATURE | -20°C to +30°C, De-rate linearly to zero at 70°C |
| | HUMIDITY (Non-condensing) | Max 95% |
| | PROTECTIONS | Overload / short circuit on the output side, over voltage on the output side, over voltage / transients on the input side, reverse polarity on the input side, over heating |
| FUSE SPECIFICATIONS | EXTERNAL INPUT SIDE FUSE (Inline with "input +" terminal) | 80V, 5A |
| | EXTERNAL OUTPUT SIDE FUSE (Inline with "output +" terminal) | 32V, 10A |
| WIRE SIZE | INPUT WIRE (Up to 6 ft) | AWG #14 |
| | OUTPUT WIRE (Up to 10 ft) | AWG #10 |
| SAFETY & EMC | EMISSION | EN50081-1 / EN61000-6-3 |
| | IMMUNITY | EN50082-1 / EN61000-6-1 |
| | AUTOMOTIVE | 95 / 54 / EC |
| GENERAL | INPUT / OUTPUT CONNECTIONS | Quick connect male 6.3mm / ¼" flat blade |
| | DIMENSIONS, MM (L x W x H) | 151 x 88 x 50 |
| | DIMENSIONS, INCHES (L x W x H) | 5.9 x 3.5 x 1.9 |
| | WEIGHT, KG | 0.5 |
| | WEIGHT, LB | 1.2 |

NOTE: Specifications are subject to change without notice

12004-IDC-100D-12-0315