



8A  
samlexamerica®



## DC-DC Step Down Converter

Model  
IDC-100B-12  
8 Amps

### Design Features

- Fully isolated
- Short circuit protected
- Current limited
- 2 year warranty

### Applications

- Earth moving equipment
- Heavy trucks
- Buses
- Marine vehicles
- CB radios
- 12 or 24 Volt lighting systems
- AM / FM sound systems

## 2 YEAR WARRANTY

|                     | MODEL NO.   | IDC-100B-12   |
|---------------------|---|---|
| INPUT               | INPUT VOLTAGE RANGE   | 20 - 35 VDC   |
|                     | OUTPUT VOLTAGE  | 12.5 VDC  |
|                     | OUTPUT CURRENT*   | 8A  |
|                     | INPUT TO OUTPUT ISOLATION                                   | Yes. > 400 V 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)   | 32V, 7.5A   |
|                     | 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   |

\* The output current indicated is the maximum current at the maximum input voltage