



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

	<b>MODEL NO.</b>	<b>IDC-100B-12</b>
<b>INPUT</b>	<b>INPUT VOLTAGE RANGE</b>	20 - 35 VDC
	<b>OUTPUT VOLTAGE</b>	12.5 VDC
	<b>OUTPUT CURRENT</b>	8A
	<b>INPUT TO OUTPUT ISOLATION</b>	Yes. > 400 V RMS
	<b>OUTPUT RIPPLE &amp; NOISE</b>	< 50 mV RMS
	<b>PEAK EFFICIENCY</b>	85%
	<b>COOLING</b>	By temperature controlled fan
	<b>OPERATING TEMPERATURE</b>	-20°C to +30°C, De-rate linearly to zero at 70°C
	<b>HUMIDITY (Non-condensing)</b>	Max 95%
	<b>PROTECTIONS</b>	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
<b>FUSE SPECIFICATIONS</b>	<b>EXTERNAL INPUT SIDE FUSE (Inline with "input +" terminal)</b>	32V, 7.5A
	<b>EXTERNAL OUTPUT SIDE FUSE (Inline with "output +" terminal)</b>	32V, 10A
<b>WIRE SIZE</b>	<b>INPUT WIRE (Up to 6 ft)</b>	AWG #14
	<b>OUTPUT WIRE (Up to 10 ft)</b>	AWG #10
<b>SAFETY &amp; EMC</b>	<b>EMISSION</b>	EN50081-1 / EN61000-6-3
	<b>IMMUNITY</b>	EN50082-1 / EN61000-6-1
	<b>AUTOMOTIVE</b>	95 / 54 / EC
<b>GENERAL</b>	<b>INPUT / OUTPUT CONNECTIONS</b>	Quick connect male 6.3mm / ¼" flat blade
	<b>DIMENSIONS, MM (L x W x H)</b>	151 x 88 x 50
	<b>DIMENSIONS, INCHES (L x W x H)</b>	5.9 x 3.5 x 1.9
	<b>WEIGHT, KG</b>	0.5
	<b>WEIGHT, LB</b>	1.2

NOTE: Specifications are subject to change without notice

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