



8A  
samlexamerica®



### DC-DC Step Down Converter

Model  
IDC-100C-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-100C-12
INPUT	INPUT VOLTAGE RANGE	30 - 60 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)	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

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