samlexamerica®

12A

DC-DC Step Down Converters

Model
SDC-12
12 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-12
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 ± 0.1 V
	OUTPUT VOLTAGE REGULATION	3%
	INPUT CURRENT AT NO LOAD	< 5 mA
OUTPUT CURRENT	CONTINUOUS	12 A
	CURRENT LIMIT *	12.5 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)
	HUMIDITY	Max. 95%, non condensing
PROTECTIONS	OVERLOAD	By current limiting
	OVER HEATING	Drop in output voltage
	REVERSE POLARITY	Fuse protection, 5 A
	OVER VOLTAGE	Varistor (also protects against load dump)
	INPUT SIDE FUSE	12 A (inside the unit)
SAFETY AND EMC STANDARDS	EMISSION	EN50081-1
	IMMUNITY	EN50082-1
	AUTOMOTIVE DIRECTIVE	95 / 45 / EC
GENERAL	INPUT / OUTPUT CONNECTIONS	Terminal Block - 6.3 mm male flat tab, quick connect
	DIMENSIONS, MM (L x W x H)	48 x 89 x 99
	DIMENSIONS, INCHES (L x W x H)	1.9 x 3.5 x 3.9
	WEIGHT, KG	0.27
	WEIGHT, LB	0.6

Specifications are subject to change without notice

***NOTE: In current limit condition, the output voltage will drop if the current draw increases beyond the current limit value of 12.5 A**

12004-SDC-12-0812