



samlexamerica®

20A



DC-DC Step Up Converter

Model
STEP 20
20 Amps

Design Features

- High efficiency switching regulator
- Very low self consumption - less than 5mA
- Small size and lightweight
- Non-isolated input and output design for higher efficiency
- Protected against overload, short circuit, reverse polarity, high voltage and transient suppression on input side

Applications

- Industrial
- Commercial
- OEM
- Recreational
- Marine

2 YEAR WARRANTY

	MODEL NO.	STEP 20
INPUT	INPUT VOLTAGE RANGE	9-18 VDC
	INPUT CURRENT AT NO LOAD	< 5mA
OUTPUT	OUTPUT VOLTAGE AT NO LOAD	25V ± 0.1V
	OUTPUT VOLTAGE REGULATION	+0% / -5%
	OUTPUT CURRENT	20A
	OUTPUT NOISE AND RIPPLE	< 50mV RMS
	PEAK EFFICIENCY	92%
ISOLATION	ISOLATION: INPUT TO OUTPUT	No. Common Negative
	ISOLATION: INPUT/ OUTPUT TO CHASSIS	Isolated
TEMPERATURE RISE/ COOLING	TEMPERATURE RISE AFTER 30 MIN OF OPERATION AT FULL LOAD	30°C @ 20°C ambient
	TYPE OF COOLING	By convection (No Fan)
PROTECTIONS	12V INPUT SIDE FUSE (INTERNAL)	80A (2 x 40A)
	12V INPUT SIDE FUSE (EXTERNAL)	70A (2 x 35A) (Not supplied)
	24V OUTPUT SIDE FUSE (INTERNAL)	No Fuse
	24V OUTPUT SIDE FUSE (EXTERNAL)	20A (Not supplied)
	REVERSE POLARITY ON INPUT SIDE	External / Internal Input Side Fuse will blow
	HIGH VOLTAGE AND TRANSIENT SUPPRESSION ON INPUT SIDE	- Will blow input side fuse at continuous input voltage > 40V. - Also protects against load dump.
	OVER CURRENT	Short Circuit Proof. External 20A fuse will blow.
INPUT OUTPUT CONNECTIONS	TYPE OF CONNECTORS	M6 Bolt and Nut
COMPLIANCE	ROHS	RoHS compliant
	EUROPEAN CONFORMITY	CE marked; Emission: EN50081-1; Immunity: EN50082-1
	EUROPEAN AUTOMOTIVE DIRECTIVE	95/45/EC
ENVIRONMENTAL	OPERATING TEMPERATURE RANGE	-20°C / -4°F to 30°C / 86°F (De-rate linearly to zero at 70°C / 158°F)
	HUMIDITY	95%. Non Condensing
MECHANICAL	CHASSIS	Anodized Aluminum with plastic end covers
	DIMENSIONS (WITH PROTRUSIONS)	152 x 93 x 91 mm / 6 x 3.7 x 3.6 in
	WEIGHT	1.8 kg / 4 lb.

NOTE: Specifications are subject to change without notice

12004-STEP 20-0314