

DC-DC Step Up | Model | STEP 20

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

## **2 YEAR LIMITED WARRANTY**

	MODEL NO.	STEP 20
INPUT	INPUT VOLTAGE RANGE	9-18 VDC
INPUI	INPUT CURRENT AT NO LOAD	< 5mA
	OUTPUT VOLTAGE AT NO LOAD	25V ± 0.1V
	OUTPUT VOLTAGE REGULATION	+0% / -5%
OUTPUT	OUTPUT CURRENT	20A
	OUTPUT NOISE AND RIPPLE	< 50mV RMS
	PEAK EFFICIENCY	92%
ISOLATION	ISOLATION: INPUT TO OUTPUT	No. Common Negative
ISOLATION	ISOLATION: INPUT/ OUTPUT TO CHASSIS	Isolated
TEMPERATURE RISE/ COOLING	TEMPERATURE RISE AFTER 30 MIN OF OPERATION AT FULL LOAD	30°C at 20°C ambient
NISE/ COOLING	TYPE OF COOLING	By convection (No Fan)
	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
PROTECTIONS	24V OUTPUT SIDE FUSE (EXTERNAL)	20A (Not supplied)
TROTECTIONS	REVERSE POLARITY ON INPUT SIDE	External / Internal Input Side Fuse will blow
	HIGH VOLTAGE AND TRANSIENT SUPPRESSION ON INPUT SIDE	<ul> <li>Will blow input side fuse at continuous input voltage &gt; 40V.</li> <li>Also protects against load dump.</li> </ul>
	OVER CURRENT	Short Circuit Proof. External 20A fuse will blow.
INPUT OUTPUT CONNECTIONS	TYPE OF CONNECTORS	M6 Bolt and Nut
	ROHS	RoHS compliant
COMPLIANCE	EUROPEAN CONFORMITY	CE marked; Emission: EN50081-1; Immunity: EN50082-1
	EUROPEAN AUTOMOTIVE EMC DIRECTIVE	95/54/EC
ENVIRONMENTAL	OPERATING TEMPERATURE RANGE	$-20^{\circ}$ C / $-4^{\circ}$ F to $30^{\circ}$ C / $86^{\circ}$ F (De-rate linearly to zero at $70^{\circ}$ C / $158^{\circ}$ F)
LIAAIVOMMINIMIAT	HUMIDITY	95%. Non Condensing
	CHASSIS	Anodized Aluminum with plastic end covers
MECHANICAL	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