

Flatpack | Remote End Converter

5 Channels



POWERFUL TECHNOLOGY



Product Description

The Remote End Converter is a DC/DC converter designed to be used in the remote end of a Remote Powering System (RPS). A Remote Powering System can be used to power telecom equipment over existing twisted copper pairs, typically DSLAMs or other remote equipment.

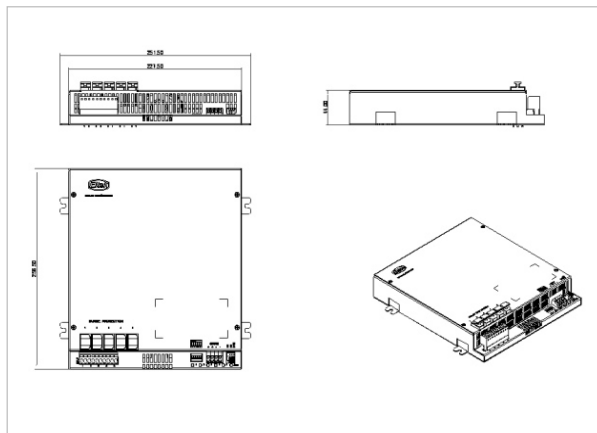
The design is based on the IEC 60950-21, IEC 60950-1 and Telcordia GR-1089-CORE safety standards.

Key Features

The unit consists of 5 galvanically isolated converters with gas tube surge protection and input current

limitation to prevent over loading of the VA Limiter.

Each channel is equipped with a blocking diode (Or-ing diode) for redundancy and selective over voltage protection. The input is reverse polarity protected with a diode bridge rectifier. The channels share the load automatically. The converter features current limiting on the input, i.e. the converter will never over load the Central Office supply (VA Limiter). This also means the output power is derated linearly with the input voltage giving a maximum of 380W output power for maximum input voltage (400Vdc), and 250W at typical input voltage (250Vdc) considering the voltage drop in the feed lines (twisted pairs).



Flatpack Remote End Converter

Additional Technical Specifications – 5 Channels

Input	
Number of Input Channels	5
Input voltage range	100 – 400 VDC
Maximum Current	240mA per channel
Protection	Surge protection (primary and secondary) Current limitation
Connector	Cage clamp: 0.20 – 2.50 mm ² AWG 24 – 12

Output	
Output voltage	45 – 55 VDC, 52Vdc preset
Output Power	380 W max total (380V input) 250 W typically (250V input) Linearly decreasing with decreasing input voltage
Output current	7.3 ADC at 52VDC
Protection	Internal electronic fuse
Connector	Cage clamp: 0.08 – 2.50 mm ² 28 – 12 AWG

Other Specifications	
Isolation voltages	Input – earth: 1500VAC Input – Output: 3000VAC Output – earth: 1000VDC
Efficiency	> 86%
Alarms	Common converter alarm by potential free relay
Visual indications	Common converter alarm indicated by LED Power OK indication by LED for each channel input
Operating temp	-40 to +65°C (-40 to +149°F)
Storage temp	-40 to +85°C (-40 to +185°F)
Cooling	Internal fans, brushless with magnetic bearing, bottom to top airflow
Acoustic Noise	< 60dBA
Humidity	Operating: 5% to 95% RH non-condensing Storage: 0% to 99% RH non-condensing
Dimensions	225 x 260 x 50 mm (wxhxd) (8.85 x 10.24 x 1.97")
Weight	2.4 kg (5,3 lbs)

Applicable standards	
Electrical safety	IEC 60950 IEC 60950-21 UL 60950 Telcordia GR-1089-CORE
EMC	ETSI EN 300 386 v1.3.2 Telcordia GR-1089-CORE
Environment	ETSI EN 300 019-2 ETSI EN 300 132-2 Telcordia GR-63-CORE

Specifications are subject to change without notice.

ORDERING INFORMATION

Part no.	Description
241258.722	Remote End Converter 5 Channels 380V/48V

DS - 241258.722 - 3

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Asia/Pacific	Eltek Energy Pte Ltd.	+65 6 7732326	+65 6 7753602
China	Eltek Energy Ltd.	+852 28982689	+852 28983189
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