

# Flatpack | VA-LIMITER



POWERFUL TECHNOLOGY

## Product Description

The Flatpack VA-Limiter unit is designed to protect the Remote Feeding Telecommunication Circuits, RFT, from over voltage, over current and leakage current to ground.

## Key Features

The module is designed to meet the requirements in the European and North American electrical safety standards, IEC 60950-21, IEC 60950-1 and Telcordia GR-1089-CORE, respectively.

The 1U high / 19/2" wide unit consists of 12 separate output channels. Each channel is provided with a "Power OK"-LED in the front in addition to a common "Alarm"-LED and a potential free contact. The unit provides front connection for cabling to actual cross connect.

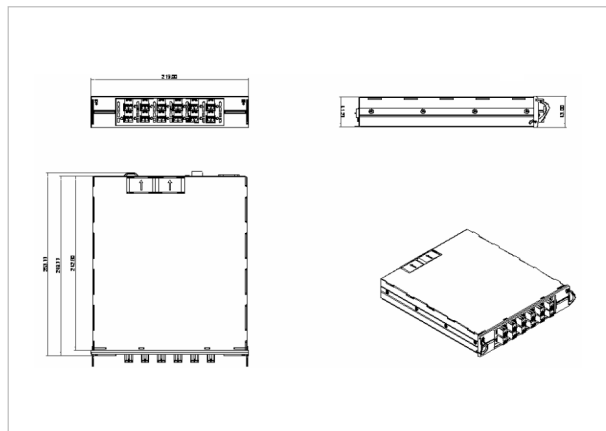
The VA-Limiter is available for different configurations;  $\pm 130V$  or  $\pm 190V$  system voltages, and for RFT-V and RFT-C\* circuits.

For the RFT-V circuits, the output power is limited to maximum 100VA per channel. For RFT-C\* circuits, the output current is limited to 60mA.

RFT-V circuits are used where the access of the system is restricted to service personnel only, whereas RFT-C circuits are used to obtain a higher level of safety by reducing the level of maximum touch current.

All configurations feature over voltage protection, over load protection and earth leakage detection. Surge protection is not included in the VA Limiter.

\* RFT-C is available upon request



# FLATPACK VA Limiter

## Additional Technical Specifications

Input	
Input Voltage Range	±125 VDC to ±139 VDC or ±180 VDC to ±199 VDC
Input Protection	Each channel is fuse protected High voltage shut down protection

Output	
Number of outputs	12
Voltage	±130 VDC or ±190 VDC
Power	RFT-V: 100 Watts/ch max  RFT-C*: 22.8 W/ch (±190VDC) 15.6 W/ch (±130VDC)
Maximum current	RFT-V: 380mA/ch (±130 VDC) 250mA/ch (±190 VDC)  RFT-C*: 60 mA/ch
Output Protection	Short circuit proof Overload protection Ground leakage protection
Ground leakage trip level:	60 mA
Ground Leakage current in shut down:	<5mA

\* RFT-C is available upon request

Other Specifications	
Isolation voltages	1.5 kVac output to ground
Alarms	Common module alarm by potential free relay
Power dissipation	Approx 50W constant
Visual indications	Common module alarm indicated by LED Power OK indication by LED for each channel
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, front to back air flow
Acoustic Noise	< 60dBA
Humidity	Operating: 5% to 95% RH non-condensing Storage: 0% to 99% RH non-condensing
Dimensions	214 x 41.5 x 243mm (wxhxd) (8.43 x 1.64 x 9.57")
Weight	1.7 kg (3,7 lbs)

Applicable standards	
Electrical safety	IEC 60950-1 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
241258.724	Flatpack VA-Limiter RFT-V 12CH/±190V
241258.723	Flatpack VA-Limiter RFT-V 12CH/±130V

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