

# VN-Matrix® 12-Unit Power Supply

CENTRALIZED, REDUNDANT POWER FOR  
VN-MATRIX ENCODERS AND DECODERS

- ▶ Compatible with VN-Matrix codecs, encoders, and decoders
- ▶ Provides redundant power to multiple VN-Matrix encoder/decoder units in an equipment rack
- ▶ Simplifies rack mount wiring
- ▶ Modular, hot-swappable design enables fast replacement without powering down the entire system



The VN-Matrix® 12-Unit Power Supply is ideal for providing redundant power to multiple VN-Matrix 225, 200, and VN-Matrix 300 Series Encoders and Decoders in single equipment rack. Cabling is simplified and power supply modules can be quickly changed out without the need to power down the entire system.



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INTERFACING, SWITCHING AND CONTROL

## DESCRIPTION

The VN-Matrix® 12-Unit Power Supply provides an efficient method to connect redundant power to multiple VN-Matrix 225, 200, and VN-Matrix 300 Series encoder/decoder units in 19" equipment racks. The 1U frame houses hot-swappable power supply modules and a 12-way breakout panel attaches to the rear of the equipment rack. Cables are provided for use between the breakout panel and encoder/decoder units.

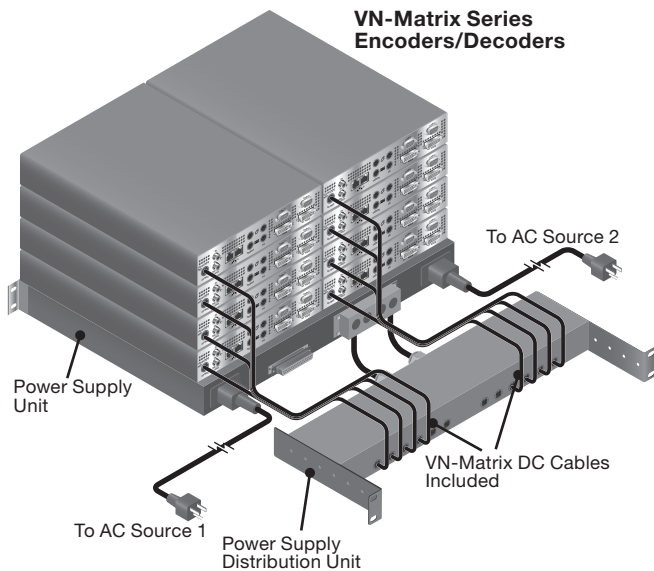
The 12-Unit Power Supply models provide redundant power for the following number of VN-Matrix units.

Model	1-6	7-12
VNM 12 PS	✓	
VNM 12 PSR	✓	✓

## FEATURES

- ▶ Compatible with VN-Matrix codecs, encoders, and decoders
- ▶ Provides redundant power to multiple VN-Matrix encoder/decoder units in a single equipment rack
- ▶ Simplifies rack mount wiring
- ▶ Modular, hot-swappable design enables fast replacement without powering down the entire system

## WIRING ILLUSTRATION

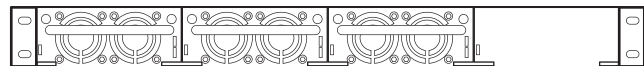


## SPECIFICATIONS

GENERAL		
Power input	90 VAC to 264 VAC, 47-400 Hz	
Full power		
VNM 12 PS	875 watts	
VNM 12 PSR	1300 watts	
Inrush current	40 A peak, typical, at 25 °C	
Surge immunity	Complies with EN61000-3-2	
Power output	Single rail, 12 VDC	
VNM 12 PS	700 watts [(2) 350 watt modules]	
VNM 12 PSR	1050 watts [(3) 350 watt modules]	
Minimum load	3 A, with at least 2 Extron VN-Matrix™ codecs connected	
Protection		
Short circuit	Continuous short circuit protection with auto recovery	
Thermal	Thermal, DC output disabled	
Temperature/humidity	Storage: -40 to +185 °F (-40 to +85 °C) / 10% to 95%, noncondensing Operating: +32 to +122 °F (0 to +50 °C) / 10% to 95%, noncondensing	
Cooling	Fans, air flows through front panel	
Mounting		
Rack mount	Yes, with integrated mounting brackets	
Enclosure type	Metal	
Enclosure dimensions	1.75" H x 17.4" W x 13.0" D (1U high, full rack wide) (4.4 cm H x 44.2 cm W x 33.0 cm D) *Width is 19.0" (48.3 cm) including built-in mounting brackets.	
Product weight	8.6 lb (3.9 kg)	
Shipping weight		
VNM 12 PS	33 lbs (15 kg)	
VNM 12 PSR	40 lbs (19 kg)	
Shock	Operating: 4 Gp-p, half sine, 22 ms minimum, 6 faces Nonoperating: 30 Gp-p, half sine, 6 ms minimum, 6 faces	
Vibration	Operating: 1 Gp-p rms, 20 min. per axis Nonoperating: 12.5 Gp-p rms, 20 min. per axis	
Regulatory compliance		
Safety	CB IEC60950-1 CE (LVD), CSA CC22.2 60950-1-03, TUV EN60950-1:2001, UL 60950-1	
EM/EMC	CISPR 22 EN55022 Class B, EN61000	
Full power MTBF	200,000 hours, MIL-STD-105e inspection level II	
Warranty	3 years parts and labor	
NOTE: Specifications are subject to change without notice.		
Model	Version Description	Part number
VNM 12 PS	12 Unit Power Supply	70-763-01
VNM 12 PSR	12 Unit Power Supply with Redundancy	70-762-01

For complete specifications, please go to [www.extron.com](http://www.extron.com)  
Specifications are subject to change without notice.

## PANEL DRAWINGS



VNM 12 PSR Power Supply Unit - Front View



Power Supply Distribution Unit - Back View



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