

FRPD-V2 Line Power Supply Non Standby



**3 Year
Guarantee**

FEATURES

- RCM and AS/NZS 61000.3.2:2013 Compliance
- -40 to 75 °C operating temperature
- Noise dampening design
- Class I 80 (Class H) / Double Insulation Class II
- 48.5/60VAC output voltage, 15A or 90VAC output voltage, 10A Options
- Pole, Wall and Pedestal Mounting

Overview

The Ferro Resonant Powering Device (FRPD) is a linear power supply (LPS) with no active electrical components inside and consists of a ferro-resonant transformer, an AC capacitor and an LED indicator.

It is rated to IP33 and enclosed in a chromate protected, powder coated, aluminium housing. The FRPD-V2 can be pole, wall or pedestal mounted and is designed to provide maximum component cooling to address abnormally high thermal environments. It contains vibration absorbing materials to minimise noise and is constructed to the AS/NZS 60950.1:2011 double insulation Class II isolation and Class I 80 (Class H) temperature, while meeting all the safety and EMC requirements of the Australian RCM including the harmonic emissions of AS/NZS 61000-3-2: 2013.

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General Specifications

Item	Description
Rated operating temperature to meet Class H temperature rating according to AS/NZS 60950.1	-40 to 60°C free air at Full load -40 to 75°C in pedestal at Full load Relative Humidity: 0 to 95% Non-condensing.
Corrosion Protection (minimum requirements)	Powder Coated, Aluminium 5005 housing with chromate treatment (Alodine), 316 stainless steel components, pickled and passivated for corrosion protection where necessary. The LPS enclosure is designed to withstand a 1000 hour salt spray test in accordance with ASTM 117B or meet AS1231 8-hour CASS test in accordance with AS2331.3.3.
Colour	APO Grey
Warranty	3 years
Noise Rating	The maximum reading of an A-weighted meter at a radius of one meter from the transformer housing is less than 50dB (A) under conditions of nominal line and full load.
Weather Tightness and Insect Protection	The IP rating is at minimum IP33. All vents and louvers are screened to inhibit entry of insects.
Security	The LPS enclosure is equipped with a quick release, vandal resistant latch with a facility designed to accept a standard padlock to deter unauthorised entry.
Dimensions and Weight	Overall dimensions, 372 mm H x 229 mm W x 242 mm D (255 mm including mounting bracket). Total weight, excluding shipping container, ~18kg.
Mounting:	Aerial and Pedestal Mounting, with options for side and bottom cable access.

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Detailed Electrical Specifications:

Item	Specification & Design
Rated Full Load	The maximum continuous output load current is 15A RMS for 48.5/60VAC and 10A RMS for 90VAC.
Input Power	Under conditions of nominal line and worst case load, the maximum apparent AC input power is approx. ~1.3kVA @90VAC and ~1.5kVA @48.5/60VAC, this occurs under output short circuit conditions. Nominal power is ~880VA @48.5VAC and ~1.1kVA @60VAC, 15A load and 1.1kVA @90VAC, 10A Output Loads.
Electrical Tolerance	Input voltage range 216 to 264VAC RMS sine wave at 50 ± 1% Hz. The nominal input voltage is 240VAC RMS, 50 Hz (50/60Hz +/- 1% for FRPDV2.P90)
Rated Output	48.5 VAC TRMS +/- 3% quasi-square wave at 50Hz. 60.0 VAC TRMS +/- 5% quasi-square wave at 50Hz. 90.0 VAC TRMS +/- 3% quasi-square wave at 50/60Hz
Power Factor	The unit maintains specifications into capacitive loads of power factor 0.8 to 1.
Output Protection	The transformer is inherently short-circuit proof by automatic fold-back current limiting. The maximum current supplied to any load, including a short circuit is less than 150% of maximum output current rating. No damage can occur to the unit due to sustained operation into overload. The unit automatically returns to normal operation after the overload is removed.
Surge Protection	Input and output surge protection complies with the category B3 specification in ANSI/IEEE C62.41.1-2002, which calls for application of (20) of each polarity biwave surges with an open-circuit voltage of 6000 Volts, and a short-circuit current of 3000 Amperes. The unit recovers output within 20ms after the surge.
Insulation Class	The transformer insulation systems meets the requirements of AS/NZS 60950.1:2011 Class 180 (Class H) temperature isolation under all conditions (normal and fault). Additionally, the transformer meets AS/NZS 60950.1:2011 for double insulation Class II requirements.

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Regulatory Compliance/Certifications

Agency	Classification
AS/NZS 61000.3.2:2013	Electromagnetic compatibility (EMC) - Limits - Limits for harmonic current emissions (equipment input current <= 16A per phase).
AS/NZS CISPR 22:2009/Amdt 1:2010	Information technology equipment - Radio disturbance characteristics - Limits and methods of measurement.
AS/NZS CISPR32:2013	Electromagnetic compatibility of multimedia equipment Emission requirements
AS/NZS 60950.1:2011/Amdt 1:2012	Information technology equipment - Safety - General requirements (IEC 60950-1, Ed.2.0 (2005), MOD).
ISO 9001:2008	Manufactured and/or distributed under this quality management system. Australian Made and Designed.
RCM Compliant	Electrical Equipment Safety System (EESS), Level 1 electrical equipment (low risk).



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Due to ongoing product development, technical specification are subject to change without notice

Ordering Information

C-COR Part Number:

FRPDV2.P for 48.5/60VAC, 15A, 50Hz version

FRPDV2.P90.50 for 90VAC, 10A, 50Hz version

FRPDV2.P90.60 for 90VAC, 10A, 60Hz version

Telstra Serial Item Number:

737/00670 for FRPDV2.P

Stocking Status: 6 to 8 weeks leadtime

MOQ: 100 Units

Contact your local sales representative for product availability in your area.