

DATA SHEET

vibro-meter®

VM600^{Mk2}/VM600 ASPS auxiliary sensor power supply



KEY FEATURES AND BENEFITS

- From the vibro-meter® product line
- Auxiliary sensor power supply for VM600^{Mk2}/VM600 ABE04x 19" system racks
- Input: 100 to 240 V_{AC}
- Output: Two 24 V_{DC} at 1.1 A
- Internal redundancy for high availability (two AC-DC converters per output)

APPLICATIONS

- VM600^{Mk2}/VM600 machinery protection and/or condition monitoring systems
- Replaces external DC power supplies

DESCRIPTION

The VM600^{Mk2}/VM600 ASPS auxiliary sensor power supply is a 24 V_{DC} power supply designed for use in the VM600^{Mk2}/VM600 series of machinery protection systems and condition and performance monitoring systems, from Meggitt's vibro-meter® product line.

The ASPS is mounted in the rear of a VM600^{Mk2}/VM600 ABE04x system rack (19" system racks with a standard height of 6U), adjacent to the rear panel of an AC-input VM600^{Mk2}/VM600 RPS6U rack power supply from which it takes its supply. Internally, each ASPS output consists of two AC-DC converters wired in parallel to ensure high availability, while the two independent outputs can be connected in parallel for increased output current or for redundancy.

A single output of an ASPS power supply can be used to power any equipment requiring a 24 V_{DC} 1.1 A (26.4 W) power supply, for example, external hardware such as front-end sensors, signal conditioners and/or GSI12x galvanic separation units. Both outputs of an ASPS can be connected in parallel in order to increase performance and provide up to 2.2 A (52.8 W).



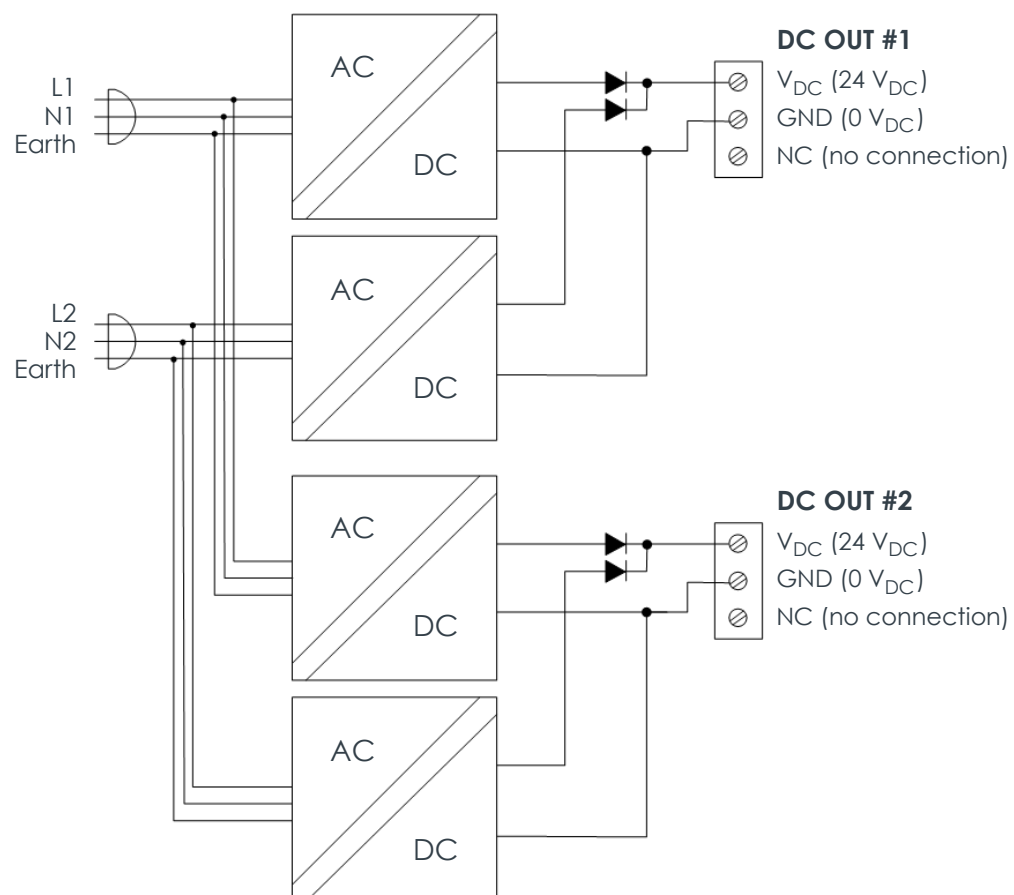
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DESCRIPTION (continued)

Installed in a VM600^{Mk2}/VM600 system rack, an ASPS auxiliary sensor power supply can replace power supplies mounted externally (such as the APF19x), in order to reduce wiring and simplify the installation.

For further information, contact your local Meggitt representative.

SYSTEM OVERVIEW



Notes

The DC OUT #1 and DC OUT #2 outputs of an ASPS auxiliary sensor power supply can be connected and operated in parallel for increased output current (up to 2.2 A) or for redundancy.

When an ASPS power supply is installed in a VM600^{Mk2}/VM600 system rack using an RPS6U associated rear panel with one AC input (PNRs 200-582-910-NHh, 200-582-911-NHh, 200-582-912-NHh or 200-582-970-NHh), the L2 and N2 inputs are not connected. As a result, only one AC-DC converter is enabled per output and the internal redundancy for high availability is not available. If required, the outputs of the ASPS can be connected and operated in parallel for redundancy but with a reduced output current up to 1.1 A.

SPECIFICATIONS

Electrical

Input voltage	: 88 to 264 V _{AC} (47 to 63 Hz) or 125 to 373 V _{DC} . The ASPS auxiliary sensor power supply takes its AC mains supply from an adjacent RPS6U rack power supply (AC-input version) in the same VM600 ^{Mk2} /VM600 system rack. Therefore, refer also to the input voltage range specified in the VM600 ^{Mk2} /VM600 RPS6U rack power supply data sheet.
Current consumption	: 0.40 A at 230 V _{AC} / 0.7 A at 115 V _{AC}
Nominal output	
• Voltage	: 2 × 24 V _{DC}
• Current	: 2 × 1.1 A
• Power	: 52.8 W max. (2 × 26.4 W)
Output stability (regulation)	: 1.0% (for 10 to 100% load variation)
Ripple (output voltage noise)	: ≤80 mV _{PEAK-TO-PEAK}
Parallel connection	: The two outputs can be connected in parallel in order to provide increased output current (2.2 A) or for redundancy (1.1 A)
Short-circuit protection (current limit)	: Yes

Environmental

Temperature	
• Operating	: -25 to 65°C (-14 to 149°F)
• Storage	: -40 to 85°C (-40 to 185°F)
Humidity	: <90% RH (non-condensing)
MTBF	: >300000 hours, according to IEC 1709 (SN 29500)

Approvals

Conformity	: EAC marking, Eurasian Customs Union (EACU) certificate/declaration of conformity
Electromagnetic compatibility	: TR CU 020/2011
Electrical safety	: TR CU 004/2011
Russian federal agency for technical regulation and metrology (Rosstandart)	: Pattern approval certificate OC.C.28.004.A N° 60224

Connectors

Screw-terminal connector (top)	: Two contacts for the power supply DC OUT #1 output: V _{DC} for 24 V _{DC} and GND for 0 V _{DC} (see System overview on page 2)
Screw-terminal connector (bottom)	: Two contacts for the power supply DC OUT #2 output: V _{DC} for 24 V _{DC} and GND for 0 V _{DC} (see System overview on page 2)
Conductor cross-section	: ≤1.5 mm ² (16 AWG)

Physical

Dimensions	
• Height	: 6U (262 mm, 10.3 in)
• Width	: 40 mm (1.6 in)
• Depth	: 110 mm (4.3 in)
Weight	: 0.89 kg (2.0 lb) approx.

ORDERING INFORMATION

To order please specify

Type	Designation	Ordering number (PNR)
ASPS	VM600 ^{Mk2} /VM600 ASPS auxiliary sensor power supply	200-582-810-0Hh

Notes

In an Ordering number (PNR), "Hh" represents the hardware version, where "H" increments are for major modifications that can affect product interchangeability and "h" increments are for minor modifications that have no effect on interchangeability.

ORDERING GUIDELINES

The ordering numbers (PNRs) given in **Ordering information on page 4** of this data sheet should be used when ordering a VM600^{Mk2}/VM600 ASPS auxiliary sensor power supply as an individual system component for use as a replacement or spare part.

However, when ordering this component with other system components as part of a complete VM600^{Mk2}/VM600 machinery monitoring system, then a VM600SYS-based ordering number should be used. Contact your local Meggitt representative for further information.

RELATED PRODUCTS

VM600^{Mk2} (second generation)

ABE04x	VM600 ^{Mk2} /VM600 system racks	: Refer to corresponding data sheet
ABE056	VM600 ^{Mk2} /VM600 slimline rack	: Refer to corresponding data sheet
ASPS	VM600 ^{Mk2} /VM600 RPS6U rack power supply	: Refer to corresponding data sheet

VM600 (first generation)

ABE04x	VM600 ^{Mk2} /VM600 system racks	: Refer to corresponding data sheet
ABE056	VM600 ^{Mk2} /VM600 slimline rack	: Refer to corresponding data sheet
ASPS	VM600 ^{Mk2} /VM600 RPS6U rack power supply	: Refer to corresponding data sheet

APF195	24 V _{DC} 0.26 A power supply	: Refer to corresponding data sheet
APF196	24 V _{DC} 3 A power supply	: Refer to corresponding data sheet
APF197	24 V _{DC} 5 A power supply	: Refer to corresponding data sheet
APF198	24 V _{DC} 7.5 A power supply	: Refer to corresponding data sheet
APF200	24 V _{DC} 3.75 A power supply with Ex certification	: Refer to corresponding data sheet
APF201	24 V _{DC} 7.5 A power supply with Ex certification	: Refer to corresponding data sheet
APF202	24 V _{DC} 5 A power supply with Ex certification	: Refer to corresponding data sheet

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Sales offices

Meggitt has offices in more than 30 countries. For a complete list, please visit our website.

Local representative

Head office

Meggitt SA
Route de Moncor 4
Case postale
1701 Fribourg
Switzerland

Tel: +41 26 407 11 11

Fax: +41 26 407 13 01

energy@ch.meggitt.com

www.meggittsensing.com/energy

www.meggitt.com

