Vibro-Meter VM600 RPS6U SIM-275D-24 200-582-200-013 DC

Rack Power Supply

The 24 V DC-input supply accepts 18-32 V DC and supplies the VM600 rack through its backplane. Exact 013 execution: original 300 W group.

System VM600	**Component** RPS6U rack power supply
Execution / part number SIM-275D-24 / 200-582-200-013	**Nominal input / input range** 24 V DC / 18-32 V DC
Original version rating 300 W	**+5 V DC output** Up to 35 A
+12 V DC output Up to 6 A	**-12 V DC output** Up to 2 A
Installation Front of ABE04x rack	**Supply positions** PS1: slots 18-20; PS2: slots 15-17
Operating temperature -25 to 65 degrees C, follow rack load/cooling limits	

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VM600 RPS6U
SIM-275D-24
200-582-200-013 DC

02 / Overview and common applications

Overview

24 V DC input execution; original 300 W version; +5 V and +/-12 V rack rails; front installation in an ABE04x rack.

Machinery protection racks

Supplies the VM600 rack and its installed protection cards.

Condition monitoring racks

Provides the rack power rails used by installed monitoring cards.

DC-fed VM600 installations

SIM-275D-24 is the 24 V DC-input execution, accepting 18-32 V DC.

Configured supply redundancy

Two supplies can support redundancy when load, rear-panel wiring and rack configuration meet the manual requirements.

Important Notice: Confirm the complete supply execution, installed rear panel, rack load and one- or two-supply configuration before replacement.

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03 / Product precautions

1. Match the full 200-582-200-013 part number and SIM-275D-24 execution.

2. Use the 18-32 V DC input range; do not connect this execution to an AC input.

3. Apply the original 300 W version limits, not the later 330 W ratings.

4. Check the ABE04x backplane and installed card load before changing the supply arrangement.

5. Identify PS1 in slots 18-20 and PS2 in slots 15-17.

6. Distinguish two-supply redundancy from two-supply non-redundant load sharing.

7. Match the associated rear panel and supply-check relay jumper configuration to the installed supplies.

8. Follow the manufacturer electrical isolation and DC-input circuit protection requirements before service.

Technical notes: SIM-275D-24 is the DC-input execution. Rear-panel wiring and supply-check relay jumpers must match the actual rack configuration.

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04 / Model-specific FAQ (1-4)

1. Why must the original 300 W limits be used for Vibro-Meter VM600 RPS6U SIM-275D-24 200-582-200-013 DC?

The 200-582-200-013 part belongs to the original RPS6U version described as 300 W. The later 330 W version has different output limits and must not supply this article's specifications.

2. Which DC input range applies to Vibro-Meter VM600 RPS6U SIM-275D-24 200-582-200-013 DC?

SIM-275D-24 is the nominal 24 V DC execution, with an 18-32 V DC input range in the hardware manual. AC-input and other DC-voltage executions are different variants.

3. What are the three rack output rails and original-version limits of Vibro-Meter VM600 RPS6U SIM-275D-24 200-582-200-013 DC?

The original 300 W version provides +5 V DC up to 35 A, +12 V DC up to 6 A and -12 V DC up to 2 A. Rack loading and cooling requirements still apply; these rail limits do not establish unlimited simultaneous loading.

4. Which PS1 and PS2 rack positions can be used for Vibro-Meter VM600 RPS6U SIM-275D-24 200-582-200-013 DC?

PS1 occupies slots 18-20 on the right; PS2 occupies slots 15-17. Use the appropriate ABE04x backplane and DC rear-panel arrangement, and isolate power before exposing the backplane.

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05 / Model-specific FAQ (5-8)

5. What does the original DC supply top LED identify on Vibro-Meter VM600 RPS6U SIM-275D-24 200-582-200-013 DC?

The original DC version uses a top LED labelled DC. The later version uses IN for both AC and DC executions, so the later indicator legend should not be assumed for this original supply.

6. Do two installed Vibro-Meter VM600 RPS6U SIM-275D-24 200-582-200-013 DC supplies automatically provide redundancy?

No. The manual distinguishes redundant operation from non-redundant load sharing. Card load, temperature, supply version and wiring determine whether one supply can carry the required rack load; external supply redundancy is a separate question.

7. How do J16 and J17 relate to the rack configuration containing Vibro-Meter VM600 RPS6U SIM-275D-24 200-582-200-013 DC?

For the associated supply-check relays, the manual specifies J16 open/J17 closed for PS1 only, J16 closed/J17 open for PS2 only, and both open when both supplies are installed. Apply the instructions for the actual backplane and configuration.

8. Which circuit-protection guidance applies to the original 24 V DC execution of Vibro-Meter VM600 RPS6U SIM-275D-24 200-582-200-013 DC?

The hardware manual recommends a 23 A circuit breaker for the original 300 W, 24 V DC version. Provide the specified accessible means of DC supply disconnection and follow the manufacturer's installation requirements; the DC input lead is not supplied.

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06 / Document purposes and related portfolio

Manuals 1: Technical Reference

Exact identity, original-version ratings and rack arrangement.

Manuals 2: VM600 MPS Hardware Manual

Unmodified manufacturer manual; Edition 17, February 2018. Covers original and later supply versions.

View as PDF: Complete Information

Specifications, applications, precautions and document purposes.

Related portfolio

Separate product references; no compatibility or replacement equivalence is asserted.

Vibro-Meter VM600 RPS6U SIM-330A 200-582-500-021

View Vibro-Meter VM600 RPS6U SIM-330A 200-582-500-021

Vibro-Meter CA303 144-303-000-011

View Vibro-Meter CA303 144-303-000-011

Vibro-Meter S3960 GSI 127 244-127-000-017 A1-B02

View Vibro-Meter S3960 GSI 127 244-127-000-017 A1-B02

Meggitt SA: VM600 MPS Hardware Manual (standard version), MAMPS-HW/E, Edition 17, February 2018; Sections 2.10, 8.3 and Appendix A.2.

Vibro-Meter SA: VM600 Functional Safety Manual, MAVM600-FS/E, Edition 2, 3 May 2010; Table 1-2 (exact part identity).

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