

Installation and Implementation Manual – Industrial Power Supplies

KPS_RS01L / KPS_RS02L

English

P 2



Read before powering on!

Please read these installation and maintenance instructions before switching on the power supply. This power supply should only be installed by qualified and competent personnel. In case of damage or malfunction, immediately disconnect the power supply and return the unit to the factory for inspection. The data provided in this document is for product description purposes only and has no legal value.



WARNING

To avoid electrical damage, fire, personal injury, or death, please consider the following points:

- Turn off the power supply before any work on it and ensure there is no risk of restarting.
- Do not open, modify, or repair the power supply.
- Ensure that no objects come into contact with the inside of the power supply (paper clips, metal parts).
- Do not operate the device in a humid environment or in an environment where condensation may occur.
- Do not touch the casing during operation or immediately after turning off the power. Hot surface may cause injury.

Certificate of factory testing / Calibration	Revision	Date
	1	13/11/2023

1. Introduction

The KPS_RSo1L (single output) and KPS_RSo2L (dual output) industrial power supplies are AC-DC or DC-DC power supplies up to 3000 W, designed for industrial, energy, photovoltaic and demanding applications.

2. Technical Specifications

Input	110–370 Vdc / 85–230 Vac single phase / 3 phase 400 Vac
Possible Output	110 Vdc, 115 Vdc, 125 Vdc, 127 Vdc
Power	3000 W max
Protection	Short circuit, overload, thermal
Cooling	Air intake from below, exhaust from above, fan
Size	175mm wide, 200mm high, depth depending on the version (between 240 and 340mm)

3. Available Options

- Watchdog relay for output voltage control
(Common, Normally Open and Normally Closed, 2A max)
- Output diode for parallel connection
- 1 or 2 output versions

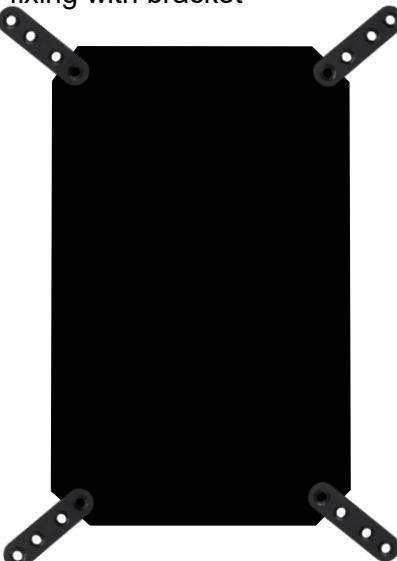
4. Safety Instructions

- Mount the power supply in an enclosure that complies with current electrical regulations.
- Use an appropriately sized cable.
- Protect the primary input with a circuit breaker rated for the power supply's power.
- Ensure adequate airflow to optimize ventilation.
- Orient the enclosure correctly to ensure proper airflow.

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5. Installation

DIN rail or wall mounting. IP20 aluminum housing.

Rail DIN	Wall Mount
	4-corner fixing with bracket 

Always leave space above and below the power supply to ensure sufficient airflow for cooling.



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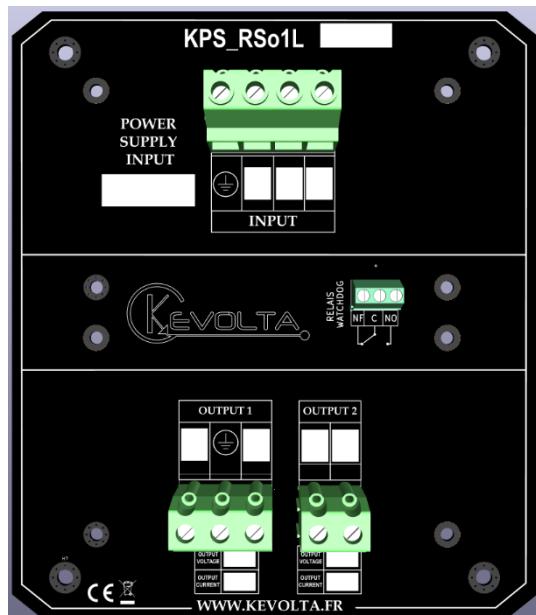
6. Environment and Reliability

Weight	~4 à 6 kg
MTBF	350 000 h (without FAN)
Lifetime	100 000 h
Storage temperature	-40 à +85 °C
Humidity	~85% (not condensed)

7. Connections

PIN 1	Terre
PIN 2	L1 (Triphasé)
PIN 3	L2 / N (Monophasé)
PIN 4	L3 / L (Monophasé)

Output 1	PIN 1 Terre, PIN 2 V+, PIN 3 V-
Output 2	PIN 1 V+, PIN 2 V-



8. Recommendations for protection/wiring

Input Voltage	110Vdc à 137,5Vdc
Output Voltage	125 Vdc
Output current	20A
Power Max	2500W
Circuit breaker	Curvee C, 500Vdc, 32A
Entry cable section	4mm ² (max 10m)
Output cable section	4mm ² (max 10m)

9. Normative Compliance

Directive CEM 2014/30/UE / Directive Basse Tension 2014/35/UE
 EN61000-6-2, EN61000-4-2/3/4/5/6/8/11, EN55011 Classe A