

Product Family

powerPLUG Power Distribution

Power Distributor

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Valid for	
powerPLUG Power Distribution	POWER-LK-NFM POWER-LK-SFM POWER-LK-RFM LV-NM5F

1. Product Description

KLOTZ AIS powerPLUG Power Distribution units are passive power distributors for professional stage, touring and broadcast use. They distribute a single 230 V AC mains input via one inlet to multiple locking outputs.

Available in two housing versions: compact (Ultramid C3U, for mobile use) and rack/panel version (aluminium, broadcast quality).

⚠ WARNING – Mains Voltage 230 V AC

This product carries 230 V AC / 16 A. Connection, commissioning and maintenance by qualified electricians only. No internal overcurrent protection – upstream protection (MCB B16 + RCD) mandatory.

2. Symbol Description

Symbol	Meaning
⚠	Warning – general hazard
⚡	Warning – electric shock / mains voltage
⊘	Prohibited action
i	Note / important information

3. Product Variants & Order Numbers

The article number is printed directly on the product. Use this number to find the relevant manual at:

instructions.klotz-ais.com

Compact – Ultramid C3U Housing (black)

Order No.	Input	Outputs	Housing
POWER-LK-NFM	1× powerCON TRUE1 M	4× powerCON TRUE1 F	Ultramid C3U, black
POWER-LK-SFM	1× PowerTwist TR1 M	4× PowerTwist TR1 F	Ultramid C3U, black
POWER-LK-RFM	1× Power X-Series M	4× Power X-Series F	Ultramid C3U, black

Rack / Panel – Aluminium (broadcast quality)

Order No.	Input	Outputs	Housing
LV-NM5F	1× powerCON TRUE1 M	5× powerCON TRUE1 F	Aluminium, powder-coated, matt black

4. Technical Data

Parameter	Value
Operating voltage	230 V AC, 50/60 Hz
Max. rated current (total)	16 A
Internal overcurrent protection	None – upstream protection (MCB B16 + RCD) mandatory
Connector NFM / NM5F	powerCON TRUE1 M/F
Connector SFM	PowerTwist TR1 M/F
Connector RFM	Power X-Series M/F
Plugging under load (CBC)	Permitted with powerCON TRUE1, PowerTwist TR1 and Power X-Series
IP class (connected)	IP65 (powerCON TRUE1, PowerTwist TR1 and Power X-Series)
Operating temperature	–10 °C to +45 °C
CE conformity	✓ 2014/35/EU · RoHS 2011/65/EU

5. Intended Use

Passive distribution of 230 V AC to multiple loads in professional event and studio environments. The product has no built-in overcurrent protection – upstream protection must be provided by the electrical installation.

i Connector Compatibility

powerCON TRUE1, PowerTwist TR1 and Power X-Series are mechanically compatible with each other. CBC permitted with all three.

Improper use (not permitted):

- Operation without upstream protection (MCB B16 + RCD)
- Connecting loads that exceed the total rated current of 16 A
- Mixing incompatible connector systems
- Unauthorised modifications or repairs

6. Target Groups

Qualified Electricians Only (mandatory for):

- Initial installation and mains connection
- Rack/panel mounting (LV-NM5F) per VDE 0100 / IEC 60364
- Maintenance, testing, servicing and acceptance inspection
- Assessment of upstream protection

Operator / User (after briefing by qualified electrician):

- Correct connection and disconnection of loads
- Visual inspection before each use
- Observing total load limit (max. 16 A)

7. Safety Instructions

DANGER – Risk to Life

230 V AC. Contact with live parts can be fatal. Disconnect from mains and secure against re-energisation before opening or servicing.

WARNING – No Internal Overcurrent Protection

Total current of all connected loads must not exceed 16 A. Upstream protection (MCB B16 + RCD) is mandatory.

- Check all connector locks before energising
- If upstream fuse trips: identify cause before resetting
- Do not operate covered or bundled at full load
- Monitor housing and cable temperatures – shut down immediately if abnormal

8. Initial Commissioning

- Visual inspection for transport damage
- Check all connectors and housing for integrity
- Check and document upstream protection (MCB B16 + RCD)
- Connect input cable with locked connector
- Connect loads to outputs – total current ≤ 16 A
- Apply power and verify all outputs

Rack/Panel version (LV-NM5F) – additionally:

- Panel or rack mounting by qualified electrician (per VDE 0100 / IEC 60364)
- Ensure strain relief on all incoming cables
- Acceptance inspection by qualified electrician before first use

9. Operation

Operation by non-electricians is permitted (children excluded), provided installation and briefing by a qualified electrician have been completed.

- Monitor total current of connected loads (≤ 16 A)
- Check all connector locks regularly
- If fuse trips: identify cause before resetting

10. Maintenance & Testing

Before any maintenance:

- Disconnect from mains and secure against re-energisation
-

Minimum inspection intervals (annually, per DGUV V3 / BGV A3):

Inspection / Test	Requirement
Visual inspection	Cables, insulation, connectors, strain relief
Protective conductor test	Resistance $\leq 0.3 \Omega$ (cables ≤ 5 m)
Insulation resistance	$\geq 1 \text{ M}\Omega$ at 500 V DC
Protective conductor test	Resistance $\leq 0.3 \Omega$ (input to each output)
Locking systems	Check all connector locks for correct function
Upstream protection	Test MCB and RCD function
Documentation	Record date, inspector, measured values and result

11. Storage & Cleaning

- Disconnect from mains before cleaning
- Store dry and at moderate temperature (-10°C to $+45^\circ\text{C}$)
- Protect connector contacts from contamination
- Check housing for mechanical damage
- Clean with a dry, soft cloth only – no solvents

13. Disposal

i Disposal Notice

This product must not be disposed of with household waste. Separate collection required under EU Directive 2012/19/EU (WEEE). Contact your local dealer or municipality for disposal information.

14. Manufacturer & Contact

Manufacturer	KLOTZ AIS GmbH
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E-Mail	info@klotz-ais.com
Website	klotz-ais.com
User manual online	instructions.klotz-ais.com

Printed copies of this manual are available free of charge upon request.

15. Limitation of Liability

This product complies with all applicable national and European requirements. KLOTZ AIS GmbH reserves the right to make technical changes. All applicable national regulations of the country of use must be observed.

16. Simplified EU Declaration of Conformity

KLOTZ AIS GmbH, Johann-Sebastian-Bach Str. 36, 85591 Vaterstetten, Germany declares that the powerPLUG Power Distribution units (order numbers see Chapter 3) comply with the following EU directives:

Directive / Regulation	Description
2014/35/EU	Low Voltage Directive (LVD)
2011/65/EU + 2015/863/EU	RoHS – Restriction of Hazardous Substances
(EU) 2023/988	EU General Product Safety Regulation (GPSR)
REACH (EC) No. 1907/2006	Chemicals Regulation

Full EU Declarations of Conformity and further documentation: instructions.klotz-ais.com

17. Legal Notices

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17.2 Disclaimer of Liability

This manual has been compiled with the utmost care. KLOTZ AIS GmbH accepts no liability for damages resulting from: failure to observe this manual · use of the product other than as intended · unauthorised modifications · unsuitable accessories or replacement parts · external influences beyond the specified operating range · non-compliance with applicable national regulations at the place of use.

Statutory product liability under EU Directive 85/374/EEC (as amended, from 2026: 2024/2853/EU) and claims arising from personal injury remain unaffected.

17.3 Case-by-Case Assessment & Operator Responsibility

This manual serves as general guidance only. The assessment of the product's suitability for any specific application and ensuring correct operation are the sole responsibility of the operator or qualified electrician on site. KLOTZ AIS GmbH accepts no liability for damages arising from use beyond the intended purpose described in this manual.

17.4 Notice Regarding Use by AI Systems (EU AI Act)

This manual is intended exclusively for direct use by human operators. Any automated processing by AI systems or language models is the sole responsibility of the AI system operator. Safety-critical decisions must not be based solely on AI-generated output (EU AI Act, (EU) 2024/1689).

17.5 Version Control

The version of this manual current at the time of placing the product on the market is always binding. Earlier versions lose their validity upon publication of a successor version. Latest version always available at:

instructions.klotz-ais.com

Person responsible for content pursuant to §55 (2) RStV:

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