

TTMM-001 SERIES PDU

Technical Specifications

Input	Input Protections
1x powerCON® TRUE1 16A 230V 3P with sealing self-closing cap IP65 (Neutrik)	-

Outputs	Outputs Protections
1x powerCON® TRUE1 16A 230V 3P with sealing self-closing cap IP65 (Neutrik)	-
3x Auxiliary connector 230V 3P (Optional)	-

Additional Functionalities

- **Indicator LEDs**
 - 1x Phase presence indicator green LED

Mechanical & Electrical Design

- **Ingress Protection:** IP65-rated enclosure; completely dust-tight and protected against low-pressure water jets from any direction. Suitable for both indoor and outdoor environments, including demanding field applications where high durability and weather resistance are essential.
- **Enclosure Material:** Constructed from 2.0 mm powder-coated aluminium sheet with a fine-textured finish. This robust material offers excellent mechanical strength, corrosion resistance, and long-term performance in demanding field conditions.
- **Overall Dimensions:** 95 x 300 x 80 in mm (Height × Width × Depth).
- **Labeling:** All connectors and protective devices are identified with UV-printed markings. UV printing ensures resistance to environmental degradation, including UV exposure and solvent-based cleaning agents.
- **Mounting Options:** The unit features integrated mounting points to support a wide range of installation methods.
 - Top Panel: One M10 slot for clamp mounting and two M8 threaded inserts for eye bolts, suitable for suspended use with steel cables, ropes, or quick-tie fasteners.
 - Bottom Panel: One M10 slot for clamp-based vertical fixation.
 - Rear Panel: One additional M10 slot for wall or scaffold mounting.
 - M10 clamp slots are compatible with pipe diameters between 35–51 mm, providing stable and adjustable positioning. The included rubber washers allow for angled mounting, increasing flexibility in complex setups.

- **Connector Installation:** Equipped with Quick Connector Replacement (QCR) system. Connectors are mounted with two or four stainless steel screws and sufficient internal cable slack to enable replacement without disassembling the entire enclosure.
- **Internal Conductor Cross-Sections:**
 - 16A circuits: 2.5 mm² (Cu)
- **Wiring and Components:**
 - Internal cabling: Helukabel flexible conductors, H07V-K or equivalent.
 - Terminal blocks: Wago spring-cage terminals

Electrical Specifications

- Rated voltage (U_n): 230 V AC, 1P+N+PE
- Rated current (I_{nA}): 16 A
- Frequency (f_n): 50/60 Hz
- Maximum continuous load: 3.68 kVA* (3.68 kW at $\cos\phi = 1$)
- Rated diversity factor with using the loop output (RDF_1): 0.25
- Rated diversity factor without using the loop output (RDF_2): 0.33
- Protection class: Class I (protective earth)

*At 30°C ambient air temperature

Environmental Ratings

- Operating temperature: -5 °C to +40 °C, with the average ambient temperature over a 24-hour period not exceeding 35 °C, (in accordance with IEC/EN 61439 recommendations)
- Storage temperature: 0 °C to +40 °C
- Relative humidity: Maximum 95% at ambient temperatures from -5 °C to 30 °C, decreasing to 70% at 35 °C and 57% at 40 °C, non-condensing (in accordance with IEC/EN 61439 recommendations)
- Maximum installation altitude: ≤2000 m above sea level

Auxiliary Connector Options

The following configurations are available for auxiliary connectors:

Code	Type	Rated Current	IP Code**	Manufacturer
F1	German / Austrian (Type F)	16A	IP54	Mennekes
F2	German / Austrian with gasket (Type F)	16A	IP54	Mennekes
E1	French / Belgian (Type E)	16A	IP44	Mennekes
G1	British (Type G)	13A	IP44	ABL

Code	Type	Rated Current	IP Code**	Manufacturer
J1	Swiss T13 (Type J)	10A	IP54	PCE
J2	Swiss T23 (Type J)	16A	IP54	PCE
B1	USA / Canada (Type B)	15A	IP44	ABL
K1	Danish (Type K)	16A	IP44	PCE
CE	CEE 6h	16A	IP54	Mennekes

**The stated IP rating applies when all enclosure lids and covers are fully closed. When connectors are mated, the overall ingress protection level may vary depending on the IP rating of the connected plugs. Users should ensure that all connected components maintain appropriate protection levels for the intended environment.

Ordering Information

The following table lists all standard configuration variants available for the TTMM-001 Series. Each part number corresponds to a specific auxiliary connector layout and color scheme.

Ordering Code	Connector Color Description	
	powerCON® TRUE1	Auxiliary Connector
TTMM-001-F1	Black	Black
TTMM-001-F2	Black	Black
TTMM-001-E1	Black	Black
TTMM-001-G1	Black	Black
TTMM-001-J1	Black	Black with blue lid
TTMM-001-J2	Black	Black with blue lid
TTMM-001-B1	Black	Black
TTMM-001-K1	Black	Black
TTMM-001-CE	Black	Black

Certifications & Standards

- **CE Compliance:** All components and final assemblies are CE certified, conforming to the requirements of applicable European directives, including the Low Voltage Directive (2014/35/EU) and the EMC Directive (2014/30/EU).
- **Standards Compliance:** Designed in accordance with the following international standards:
 - EN 61439-1: Low-voltage switchgear and controlgear assemblies – General rules.
 - EN 61439-4: Assemblies for construction sites (ACS).
- **Manufacturer Information:**
 Designed and manufactured by:
 Tesla Entertainment Kft.
 Address: H-1151 Budapest, Károlyi Sándor út 158.; Hungary
 EU VAT ID: HU26587255

- **Country of Origin:** Hungary; all units are assembled and tested at our facility in Budapest.

Safety Notice

- This device must be installed, operated, and maintained by qualified personnel only. Internal components may carry live voltage during operation. Maintenance tasks, including connector replacement, must only be carried out with the power supply fully disconnected/isolated.
- All safety guidelines, installation procedures, and maintenance instructions are provided in the product's user manual. Please read and follow them carefully to ensure safe and correct operation.
- For full warranty terms and legal information, please refer to our General Terms and Conditions available at: <https://TeslaTech.GmbH/GTCS>

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