

19-inch Single-phase Safety PDU

Power distribution unit for test equipment

DIST-16AM-192U-01

DESCRIPTION

The 2U Rack Units Single-phase power distributor developed by Tame-Test mainly provides power to the electrical and electronic test instruments racked inside the 19-inch cabinets. It is designed to supply European standard 230 Volts (50Hz) AC, the plug-in PDU has also 24 V DC terminals designed for the low power devices.

The PDU comes with all necessary features to ensure the safety of people and the powered equipment as well.

The PDU includes a sequential startup used to limit current draws by powering 3 groups of 4 outlets one by one. The PDU is equipped with two dry contact thermostats inputs to control the temperature in the test benches, allowing a pre-alarm and a total shutdown of all output outlets.

An Emergency Power-Off (EPO) button is placed in the front panel to disconnect the PDU from the main power source for safety matters. The EPO is exported to back panel to turn off any inverter if it is used in the test platform.



KEY ADVANTAGES

- Rack mountable in all 19-inch test benches
- CE Certified
- Easy to install in customer applications
- Alert and emergency stop system according to temperature status

FEATURES

- EIA-310 compliant 19 in. rack, 2U height
- 2 IEC 60320-C13 permanent AC outlets
- 12 IEC 60320-C13 sequential AC outlets
- 24 VDC power outlet
- 230 VAC 1-phase mains input
- 2 Inputs for temperature control
- Emergency Power-Off button according to IEC 60947-5-1 and IEC 60204-1
- Emergency stop function according to temperature status
- LED for line presence
- LED for temperature status
- Main switch ON/OFF
- Mains fuses
- Residual current circuit breaker according to IEC 61008-1 and IEC 62423
- CE certified
- Electro Magnetic Compatibility directive compliant
- Low Voltage directive compliant

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TECHNICAL SPECIFICATIONS

ELECTRICAL DATA

Power Phase	1-phase
Voltage Rating	220 – 240 V AC
Frequency Rating	50-60 Hz
Current Rating	16 A
Max Current per outlet	Up to 16 A
AC Outlets	12 Sequential + 2 Permanent
DC Terminals	+24 V DC / 1.5 A
Electrical voltage indicator	White
Trip Sensitivity	min. 30 mA

MECHANICAL DATA

Width	19-inch 482,6mm
Height	2 U (88,9 mm)
Depth	340 mm
Weight	5 kg



SAFETY FEATURES

Designation	Power-up	Turn-off
XP1, XP2	Permanent	Emergency stop or T2 or circuit breaker 30 mA
XP3 - XP6	When pressing button	Press button or Emergency stop or T2 or circuit breaker 30 mA
XP7 - XP10	When pressing button	Press button or Emergency stop or T2 or circuit breaker 30 mA
XP11 - XP14	When pressing button	Press button or Emergency stop or T2 or circuit breaker 30 mA

Color code of the temperature monitoring indicator

Green : temperature below the first threshold: all outlets are activated

Orange : temperature between the first and second thresholds: all outlets are activated

Red : temperature above the second threshold: all outlets are deactivated

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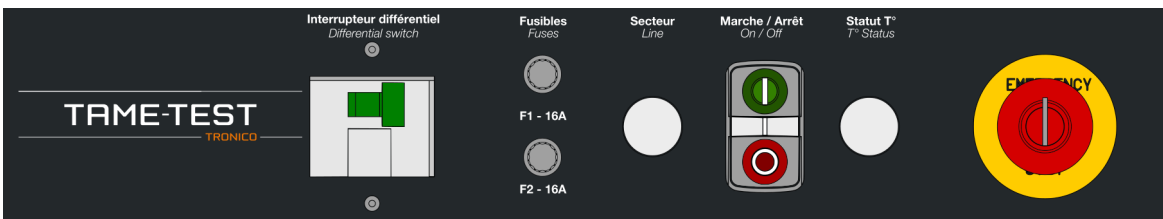
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PRODUCT REAR VIEW



Designation	Connector Type	Configurations
XP1, XP2	IEC C13	Permanent outlets
XP3, XP4, XP5, XP6, XP7, XP8, XP9, XP10, XP11, XP12, XP13, XP14	IEC C13	Sequential outlets (outlet banks)
XP0	Powercon	Mains inlet 230 V AC/50 Hz
XP15	8-point screw terminal	<ul style="list-style-type: none"> - UPS of the inverter - DC 24 V/1,5A Output - T1/T2 NO Thermostat Inputs - Output indicating that temperature has been exceeded (1st threshold)
XT0	Screw	Grounding terminal

PRODUCT FRONT VIEW



Type	Description
Differential switch	Protection against power leakage
Fuses F1, F2	Protection against short-circuits, 16A
Inlet / Line	Indicator of electrical voltage presence: white
On / off	ON/OFF Push button
T° Status	Indicator of temperature status: Green, Orange, Red
Safety function	Emergency power off button