

/// TEDEG

PDU-RT-5002 MILITARY POWER DISTRIBUTION UNIT



Power Distribution Unit

Characteristics

- Developed by Tedeg Defence, the PDU-RT-5002 Military Power Distribution Unit is a high-performance solution designed to meet the rigorous demands of military operations. This unit reliably and securely manages and distributes energy from three 220 VAC 50 Hz input sources. Capable of receiving power from various sources such as UPS, mains, and generators, the PDU-RT-5002 primarily uses the mains and switches to the generator when necessary. With its Ethernet-based remote monitoring and control feature, you can track the system's status in real-time and intervene as needed. The internal temperature measurement and associated system on/off capability ensure the unit operates safely and efficiently.
- The PDU-RT-5002 features up to ten 25-amp capacity AC/DC outputs, equipped with overcurrent and short-circuit protection. Designed to comply with MIL-STD-461F EMI/EMC and MIL-STD-810G environmental durability standards, this unit delivers reliable performance even in the most challenging conditions. The unit is developed to fit standard rack-type cabinets with dimensions of 4U-19 inches. It can be easily mounted, moved, and maintained in rack-type cabinets thanks to its built-in rail. The fan cooling system provides a continuous and reliable operating environment. Fault warning modes help detect potential issues in advance and allow for quick resolutions. The Tedeg Defence PDU-RT-5002 Military Power Distribution Unit supports the success of critical missions by offering superior safety and efficiency in military applications.



Features of the system

Number of Inputs and Power Supply	3 Units 220 VAC 50 Hz
Input Types	UPS, Mains, Generator
Input Priority	1- Mains 2- Generator
Remote Control and Monitoring	Ethernet Capability to monitor and manage equipment powered by GDB output remotely
Internal Temperature Measurement	Yes. It can turn on and off systems it controls based on temperature data.
Output	Up to 10 units 25 Amperes AC/DC Output
Overcurrent and Short Circuit Protection	Circuit Breaker
Ready Time After Power On	Max. 1 Minute
Fault Warning Modes	<ul style="list-style-type: none">• System fault,• AC High,• AC Low,• AC Reverse,• DC High,• DC Low,• High Temperature,• Low Temperature

Features of the system

Dimensions

• 4U • 19 Inch

Cooling

• Fan Cooling

Log Recording

• Mains Voltage, Current, Frequency, Output Voltage

Log Capacity

Last 100 Records

PC Control Interface

Desktop PC Web Application

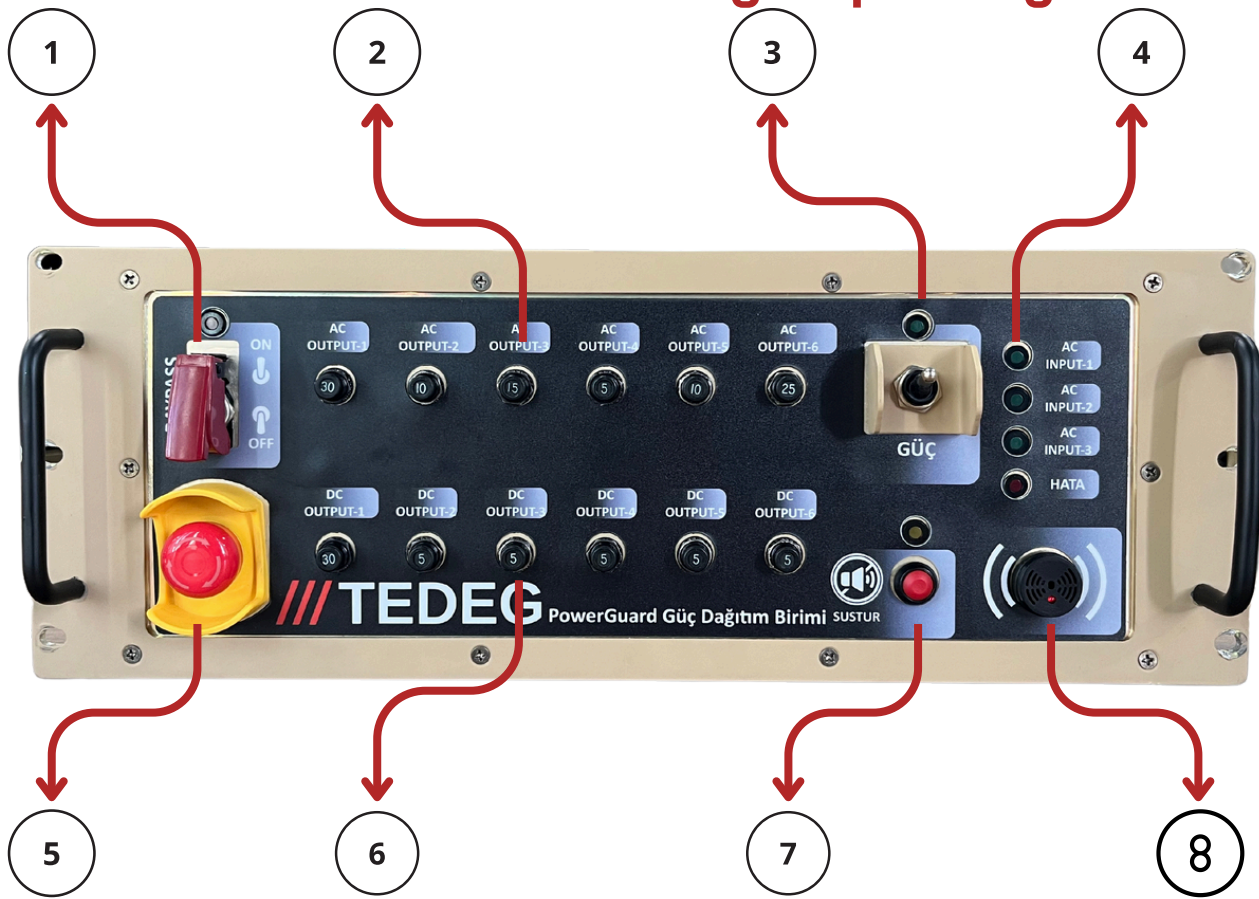
EMI/EMC Protection @MIL-STD-461F

CE102, CS101, CS114, CS115, CS116, RE102, RS103

Environmental Durability @MIL-STD-810G

- Low Pressure,
- Low Temperature,
- Contamination By Fluids,
- Solar Radiation,
- Rain, Humidity,
- Fungus,
- Salt Fog,
- Sand and Dust,
- Vibration,
- Shock

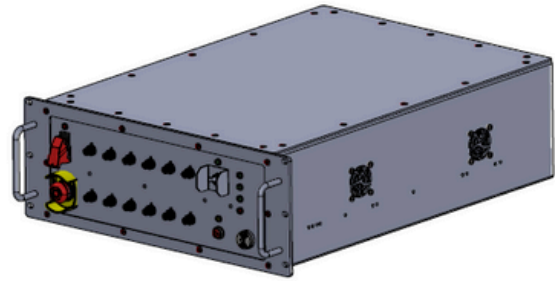
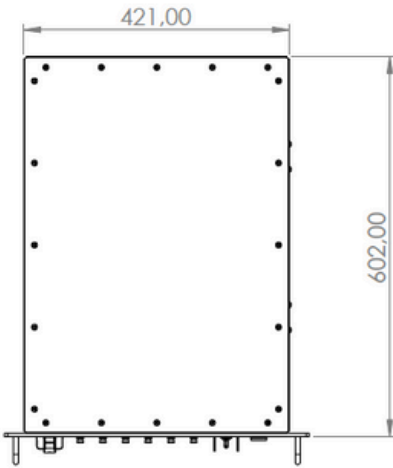
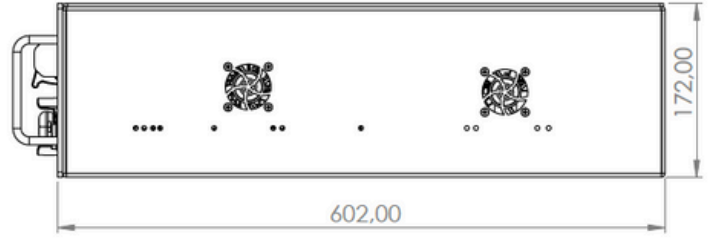
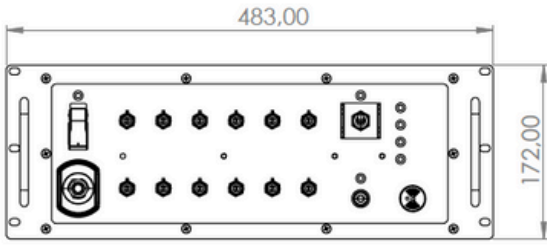
Control and Warning Capability



1	BYPASS Switch	In cases of system faults or limit value exceedances, this switch turns the power output to the off position. When the bypass switch is activated, it ignores all faults and warnings, allowing the system to continue supplying power.
2	AC Output Circuit Breaker	The AC output circuit breaker protects the output line against overcurrent and short circuit conditions. It ensures safety by manually breaking the circuit when necessary.
3	On/Off Switch	This switch controls the general power status of the device. It is used for turning the device on and off.
4	Power Input and Fault Indicator	The power input and fault indicator display the operating status and any existing faults of the system. System faults and power conditions can be monitored through this indicator.
5	Emergency Stop Button	This button is used to quickly shut down the system in emergency situations. It provides a means for rapid intervention for safety purposes.
6	DC Output Circuit Breaker	The DC output circuit breaker protects the DC output line against overcurrent and short circuit conditions. It ensures safety by manually breaking the circuit when necessary.
7	Buzzer Mute Button	This button is used to mute the audible warning system (buzzer). It reduces disturbance in the working environment by turning off the warning sound.
8	Buzzer	This component provides audible notifications in case of system faults and warnings. It alerts the user with an audible signal to draw attention to the issue.

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Dimensions



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