

RD6012 DC VOLTAGE CONVERTER & CONTROL ELEMENT

720 W CONTROL MODULE FOR CONVERTING AND CONTROLLING DC VOLTAGES

JOY-IT

SPECIAL FEATURES

- ✓ DC voltage converter with integrated control element
- ✓ Convenient value entry via keypad
- ✓ adjustable overcurrent & overvoltage protection
- ✓ Integrated RTC (requires CR1220 battery)
- ✓ NTC temperature sensor
- ✓ Battery charging function



The JT-RD6012 is a versatile voltage converter module with an integrated control element for use in high-performance DC power supplies. It enables the precise conversion and control of DC voltages and is therefore ideal for demanding applications in laboratory environments, industrial plants or test benches.

Thanks to the clearly designed control panel with intuitive button layout, control is particularly convenient. Up to nine memory locations are available, ensuring that frequently used configurations can be called up quickly and easily. An integrated USB interface also enables convenient remote control via PC software as well as comprehensive monitoring and logging functions. A special charging function for rechargeable batteries is also integrated.

The module offers comprehensive protection and limiting functions to ensure maximum operational safety. These include operation in constant voltage (CV) and constant current (CC) mode, reliable overvoltage and overcurrent protection and easily accessible, replaceable fuses on the rear of the device.

Optional accessories are available for even more flexibility. The robust JT-RD6012-Case01 offers space for the voltage transformer module and a powerful industrial power supply unit and ensures clean integration into professional environments. With the optional WiFi module, the system can be conveniently controlled and monitored via smartphone app.

The JT-RD6012 combines powerful control technology with flexible operation and ensures maximum control and safety for the power supply.

INPUT SPECIFICATIONS

Input voltage 6 - 70 V

OUTPUT SPECIFICATIONS

Output voltage 0 - 60 V

Output current 0 - 12 A

Output power 0 - 720 W

Voltage resolution 0,01 V

Current resolution 0,01 A

FURTHER SPECIFICATIONS

Measuring range of the battery charging function 0 - 9999.99 Ah / 0 - 9999.99 Wh

Ripple 250 mV(pp) (at maximum resolution)

Display 2.4 inch LCD

Optional accessories Housing, WiFi adapter

Working temperature range -10 - 40 °C

Fuse SMD fuse, fast-acting, ceramic 20 A

Banana plug diameter 4 mm

RTC battery CR1220 (not included)

FURTHER INFORMATION

Weight 650 g

Dimensions 167 x 81 x 65 mm

Item number JT-RD6012

Scope of delivery JT-RD6012, NTC temperature sensor

Customs tariff number 8504403000

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