Temperature Controller (±16A/±30V)

BRM-6202

BRM-6202 is a Peltier driver temperature controller, Which Supports up to ±16A output current.
BRM-6202 is designed with Dual Control Modes:

- Current Control Mode: Delivers unidirectional current for heating/cooling
- Temperature Control Mode: Auto-adjusts current magnitude/direction via PID to maintain setpoint

The unit features I/O interface for external sensor connections:

- PT100 : Precise Peltier temperature monitoring
- NTC: Heat sink/extended temperature measurement

Features

- Wide Operating Voltage Range: ±30V for flexible power compatibility
- Dual Control Modes:

    Current Control: Direct drive for Peltier devices

    Temperature Control: 0.1° C precision with PID regulation
- Multi-NTC Support: Configurable parameters for various NTC models
- Versatile Device Compatibility:

    Peltier modules (TEC)

    Thermistor-based components

Applications

- Laser Diode Precision Temperature Control

    Stable wavelength locking for optical communications

    High-accuracy thermal management of DFB/FP lasers
- Industrial Temperature Regulation

    Process control systems requiring ±0.1° C stability

    Equipment thermal stabilization
- Nonlinear Crystal Temperature Stabilization

    Critical for frequency doubling/SHG applications

    $LiNbO_3$, KTP crystal oven control
- Photodetector Cooling

    Dark current reduction in APD/PMT devices

    IR detector performance optimization
- PN Junction Characterization

    Semiconductor material research

    Temperature-dependent I-V curve analysis

Spectrometer

Optical power meter

Light source

LD Driver & TEC Controller

Solution and system

Accessories

Spectrometer

Optical power meter

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Accessories

What's included

#	Part Description	Model	Qty.
1	Temperature Controller(±16A/±30V)	BRM-6202	1
2	Power cable	BC-105075	1

Specifications

Model	BRM-6202
Output Current	±16A
Output Voltage	±30V
Temperature Resolution	0.1℃
Operating Mode	Current / Temperature control
Heating and Cooling Devices	Peltier / Thermal Resistance
Sensor Interface	1 channel PT100 interface 1 channel NTC interface
Temperature Range	-100℃ ~200℃ (PT100) -6℃ ~150℃ (NTC)
Power Supply	110/220VAC
Dimensions	230 × 275 × 135mm

Dimensions (mm)

135

230

275