#### **Features**

Drives laser diodes and TECs
Exceptionally short rise and fall time
High current stability
Very low ripple current
Excellent dynamic performance
No overshoot, no ringing
High output impedance

### **Specification Diode Unit**

Diode current

Diode voltage

Supply voltage

Output power

Pulse width

Rise time

0 ... 50 A

0 ... 29 V

400 W max\*

200 ns ... CW

Fall time 57 ns

Pulse frequency 200 KHz / 1 MHz max

Ripple current 0.2 %
Diode current monitor 100 mV / A
Diode voltage monitor 200 mV / V

Auxiliary voltage outputs +5.1 V, +15 V, -15 V

Reference voltage output +5 V

#### **Specification TEC Unit**

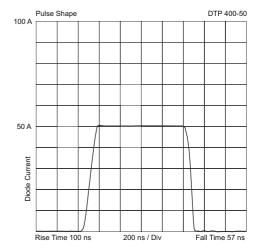
Temperature sensors PT 1000 or KTY 11-5

# **General specifications**

\* 450 W max, Diode power plus TEC power Ambient temperature 0 ... +45 °C Dimensions 259 x 87 x 105 mm

Weight 2315 g Ordering Code 10100520





## **Description**

The DTP 400-50 is a super fast pulsed laser diode driver and a full bridge TEC driver with temperature controller utilizing MPCs technology.

This multiple patented technology allows pulsing with fall times 120 times shorter compared to the state of the art and with very low electromagnetic interference.

No current overshoot or ringing arise when altering output current or load impedance abruptly.

The DTP 400-50 can be operated by a microcontroller, an external control logic or completely analog. Two operating modes are possible, mode Laser On/Off and mode Auto On.

The device is well suited to build up simple laser systems with manual controlling, or complex laser systems with safety interlock, RS 232 interface and an industrial interface for controlling by a programmable logic controller.

A comprehensive range of accessories is available, like eight different types of control panels, a safety interlock unit and a control interface unit with an industrial interface and a RS 232 interface, which allows fully controlling and configuring the system.

For detailed information see operating manual or visit our website.