

Features

- Drives high power laser diodes
- Short rise and fall time
- Excellent dynamic performance
- No overshoot, no ringing
- Available with integrated pulse unit or external pulse unit
- Available with integrated pulse control generator
- Fully programmable and configurable
- Integrated measurement data acquisition system
- Industrial Interface
- RS 232-Interface
- Single-phase AC wide input range with active power factor correction
- Very low EMI, no external mains filter required



DPSP 2000-050

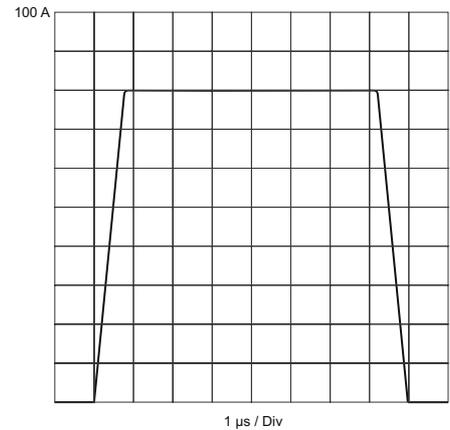
Diode current 0 ... 50 A
 Diode voltage 0 ... 40 V

DPSP 2000-070

Diode current 0 ... 70 A
 Diode voltage 0 ... 28.6 V

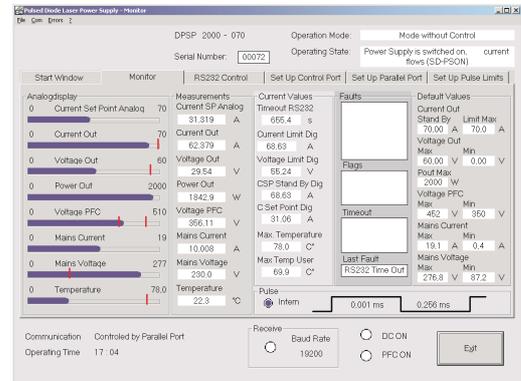
DPSP 2000-100

Diode current 0 ... 100 A
 Diode voltage 0 ... 20 V



General specifications

Pulse length 0 μs ... CW
 Pulse frequency 20 KHz / 50 KHz max
 Rise time 1 μs
 Fall time 1 μs
 Ripple current 0.03 %pp
 Current accuracy ± 0.1 %
 Current drift ± 50 ppm / °C
 Supply voltage 87 ... 276 V AC
 Ambient temperature 0 ... +45 °C
 Dimensions 312 x 247 x 126 mm
 Weight 17 kg



Description

The DPSP 2000 drivers are fully programmable high power pulsed drivers for laser diodes and laser diode stacks. 12 different models are available, models with integrated pulse unit, models with external pulse unit and models with an integrated crystal accurate pulse control generator which is programmable in the range of 1 μs ... 16.777 s in steps of 1 μs. All devices offer high accuracy, excellent pulse characteristics and stability, low drift and an ideal current source characteristic with high output impedance. Two interfaces are integrated, a Control Port and a RS 232 Port. A Parallel Port and a CAN Port are optionally available. Both are designed as a plug-in card and can be installed subsequently. The DPSP 2000 drivers can be controlled and configured directly by means of the control- and configuration software included in delivery.

For detailed information see operating manual or visit our website.