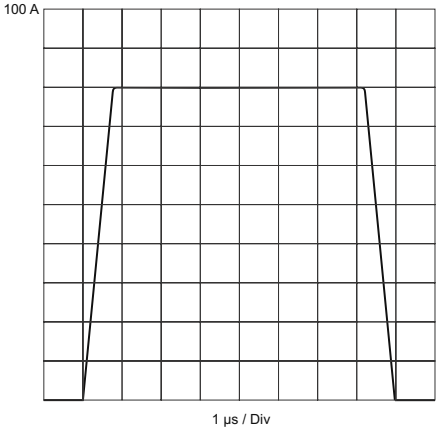
DPSP 1000
1000 W Pulsed Laser Diode Drivers

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 1000-050

Diode current	0 ... 50 A
Diode voltage	0 ... 20 V

DPSP 1000-070

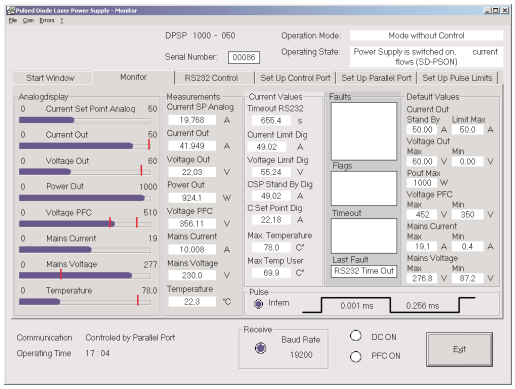
Diode current	0 ... 70 A
Diode voltage	0 ... 14 V

DPSP 1000-100

Diode current	0 ... 100 A
Diode voltage	0 ... 10 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 1000 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 1000 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.