

Features

- Drives high power laser diodes
- Ideal current source characteristic
- Outstanding static and dynamic performance
- Extremely low ripple current
- High accuracy
- Low temperature drift
- 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



DPS 1000-020

Diode current 0 ... 20 A
Diode voltage 0 ... 50 V
Ordering Code 10100277

DPS 1000-050

Diode current 0 ... 50 A
Diode voltage 0 ... 20 V
Ordering Code 10100251

DPS 1000-070

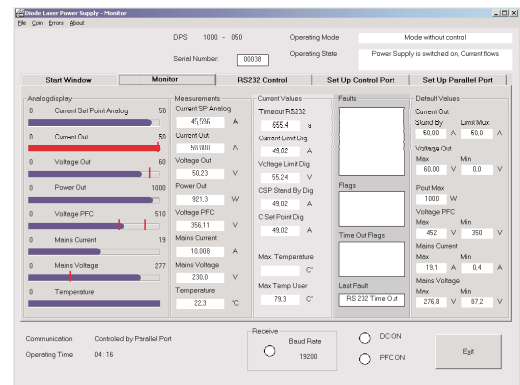
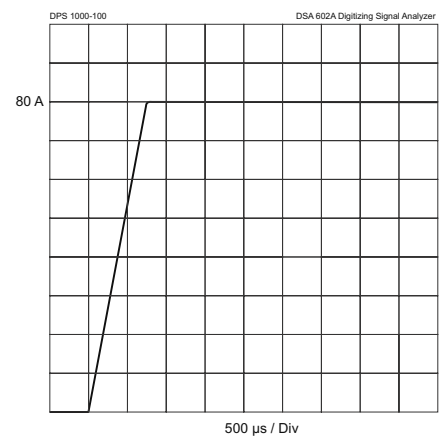
Diode current 0 ... 70 A
Diode voltage 0 ... 14 V
Ordering Code 10100252

DPS 1000-100

Diode current 0 ... 100 A
Diode voltage 0 ... 10 V
Ordering Code 10100254

General specifications

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 DPS 1000 drivers are high-precision CW laser diode drivers utilizing MPCs special technology. This technology has a lot of advantages and is particularly suited for driving laser diodes. It offers high accuracy and current stability, an excellent dynamic performance, a high output impedance and low electromagnetic interference. No current overshoot or ringing arise when altering output current or load impedance abruptly. Two interfaces are already integrated in the basic model, 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 DPS 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.