Features

Driver for laser diodes
High accuracy
High current stability
Very low ripple current
Excellent dynamic performance
No overshoot, no ringing
High output impedance

Specification Diode Unit
Diode current 2A...80A
Diode voltage 0V...26V
Supply voltage 15V...29V
Output power 1900W max.
Accuracy ± 1%
Temperature stability 50ppm / °C
Current ripple <1%
Settling time <1ms
Rise time <200μs
Diode current monitor 0V...5V±0A...80A
Diode voltage monitor 0V...5V±0V...26V
Auxiliary voltage outputs +5.1V (max. 200mA), +15V, -15V (max. 200mA each)
Reference voltage output +5V (max. 2mA)

Signal Inputs / Outputs
Diode current set point 1 0V...5V
Diode current set point 2 0V...5V
Shut Down Open Collector / TTL
Diode current monitor 0V...5V
Ready Open Collector

General Specifications
Temperature range 0...+45°C
Cooling system Water
Dimensions 218 x 88 x 68mm
Weight 1.4 kg
Ordering Code 10100224

Description
The D 1900-80-W is a high-precision water-cooled laser diode driver. This technology has a lot of advantages and is particularly suited for driving laser diodes. It offers high accuracy and current stability, excellent dynamic performance, high output impedance and low electromagnetic interference. No current overshoot or ringing arise when altering output current or when load impedance changes abruptly.

Two operating modes are available, mode Laser On/Off and mode Auto On. The device is well suited to build up laser systems, which are controlled manually, by microcontroller system or PLC system.

Warning!
Risk of exposure of hazardous laser radiation in combination with laser light emitting devices!

Technical subjects to change without notice.