

Data Sheet
Diode High Power Driver Pulsed (DPDP), air cooled

Features

- Modular configuration
- Operation in CW, Pulse or burst mode
- Exceptionally short rise and fall time
- Air cooled
- High accuracy und current stability
- Exceptionally short rise and fall time
- No overshoot, no ringing
- High output impedance
- External trigger input, internal pulse generator
- Multifunctional interfaces



Specification

Current output:

- Diode current 6...240 A / 6...320 A
- Diode voltage 0...55 V / 0...26 V
- Output power max 4800 W
- Accuracy ± 1%
- Temperature stability 50 ppm / °C
- Current ripple <1%
- Settling time <1 ms

Pulse

- Pulse and pulse pause 2 µs...CW
- Rise and fall time 1 µs (depends on diode voltage and cable length)
- Pulse frequency 20 kHz

Input:

- Input voltage range Y 340~530 VAC / Δ 196~305 VAC
- Frequency range 47...63 Hz
- Power factor 0,95
- Leakage current <3,5 mA
- Inrush current 50 A

Analog input:

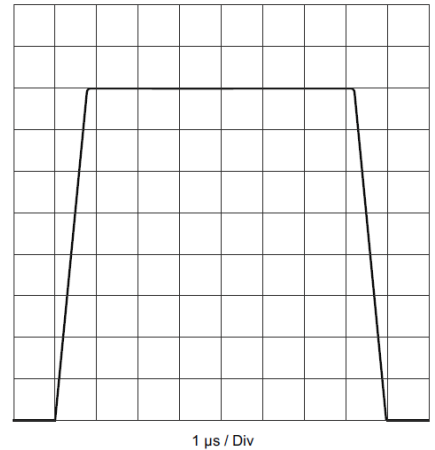
- Diode current set point 0...5 V ^ 0...240 A / 320 A

Analog outputs:

- Diode current monitor 0...5 V ^ 0...240 A / 320 A
- Diode voltage monitor 0...5 V ^ 0...55 V / 26 V
- Diode current set point limit 0...5 V ^ 0...240 A / 320 A

General Specifications

- Ambient temperature 0 ... +45 °C
- Cooling Air
- Dimensions (DPD housing, without terminals) 517 x 439 x 264 mm
- Dimensions (external pulse unit) 100 x 78 x 28 mm
- Weight 40 kg



Description

The DPDP is a modular high power laser diode driver (high power current source plus external pulse unit). The DPDP has multifunctional interfaces (USB, RS232) and can be operated via software (external PC, internal computer) or via hardware. Various operating modes can be configured (internal pulse generator or external pulse source).

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

Available configurations

Diode voltage <26 V	Diode voltage <55 V
160 A	120 A
240 A	180 A
320 A	240 A



More technical details and applications see operating manual. Technical subjects to change without notice.