

Data Sheet

Diode High Power Driver Pulsed (DPDP), water cooled

Features

Modular configuration
 Operation in CW, Pulse or burst mode
 Exceptionally short rise and fall time
 Water 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 $\pm 1\%$
 Temperature stability 50 ppm / °C
 Current ripple <1%
 Settling time <1 ms

Pulse

Pulse and pulse pause 2 μ s...CW
 Rise and fall time 1 μ s (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:

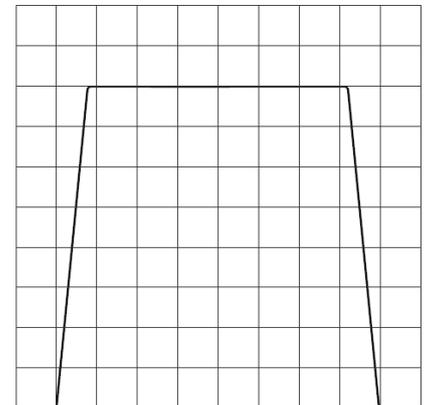
Diode current set point 0...5 V \wedge 0...240 A / 320 A

Analog outputs:

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

General Specifications

Ambient temperature 0 ... +45 °C
 Cooling water 20 °C; max. 6 bar
 Dimensions (DPD-housing, without terminals) 745 x 439 x 132 mm
 Dimensions (external pulse unit) 100 x 78 x 28 mm
 Weight 31,5 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.

Document: DPDP-W	Revision: 01	Date: 05.06.2019
www.powerconverter.com	info@powerconverter.com	+49 (0) 8856 803060