

## 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...13200 W  
 Accuracy  $\pm 1\%$   
 Temperature stability 50 ppm / °C  
 Current ripple <1%  
 Settling time <1 ms

##### Pulse

Pulse and pulse pause 2  $\mu$ s...CW  
 Rise and fall time 1  $\mu$ s (depends on diode voltage and cable length)  
 Pulse frequency 20 kHz

##### Input:

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

##### Analog input:

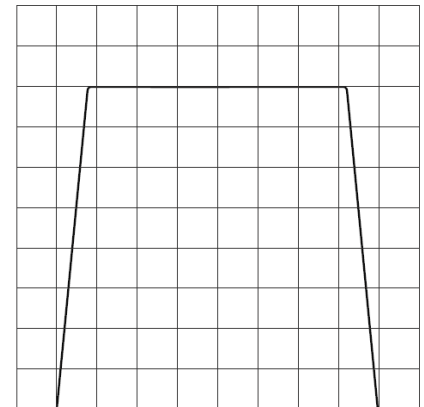
Diode current set point 0...5 V  $\wedge$  0...240 A / 320 A

##### 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.

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www.powerconverter.com	info@powerconverter.com	+49 (0) 8856 803060