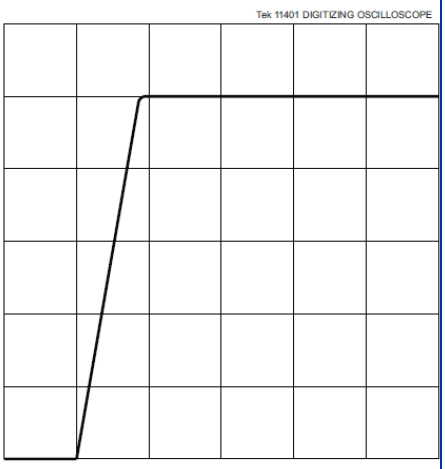
MESSTEC Power Converter GmbH

Data Sheet
Diode High Power Driver (DPD), air cooled

Features
Modular configuration
High accuracy und current stability
No overshoot, no ringing
Air cooled
High output impedance
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
Rise time	<300 µs
Input:	
Input voltage range	Y 340~530 VAC / △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
Weight	39,5 kg

Description
The DPD is a modular CW high power laser diode driver.
The DPD has multifunctional interfaces (USB, RS232) and can be operated via software (external PC, internal computer) or via hardware. DPD can also be operated with an external trigger input.

Available configurations

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

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

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