

Data Sheet
Modular High Power Driver (DPD)

Features

- Modular configuration
- Air- or water cooled
- High current stability, low ripple
- Exceptionally short rise and fall time
- No overshoot, no ringing
- High output impedance
- External trigger input
- Control via touch display or external PC
- Operation in CW or slow pulsing or burst mode
- Multifunctional interface

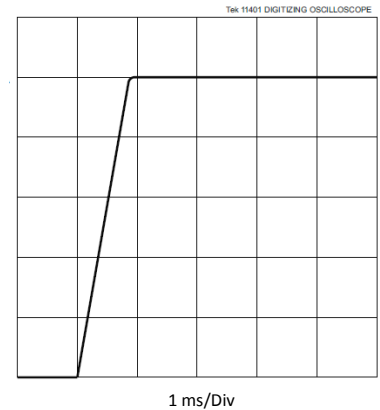


Specification Diode Unit

Diode current	0 ... 240 A / 0...320A
Diode voltage	0 ... 55V / 0...24V
Supply voltage	3ψ 3-wire / Δ 196 ~ 305VAC or 3ψ 4-wire / Y 340 ~ 530VAC
Supply current	15A/230VAC(3ψ 3-wire / Δ) 9A/400VAC(3ψ 4-wire / Y)
Output power	4800 W max
Pulse frequency	50 Hz
Accuracy	1 %
Temperature stability	50 ppm / °C Ripple current 1%
Settling time	<1ms
Diode current monitor	0...5 V ^ 0...240 A / 320A
Diode voltage monitor	0...5 V ^ 0...55 V / 24V

Specification TEC Controller (option)

TEC voltage	0 ... 24 V max
TEC current	0 ... 15 A max
TEC power	360 W max
Temperature range	0 ... +50 °C
Accuracy	0.1 K
Temperature monitor	100 mV / °C Temperature sensors PT 1000 or KTY 11-5



General Specifications

Ambient temperature	0 ... +45°C
Cooling	Water (20°C/ max. 6 bar) / air
Dimensions	777 x 440 x 132 mm / 777 x 440 x 176mm
Weigh	31 kg

Description

The DPDP is a modular high power laser diode driver. Single module is D3300-60 / max 55V diode voltage (possible expansion stages: 60A / 120A / 180A / 240A) or D1900-80 / max. 24V diode voltage (80A / 160A / 240A / 320A). Option with TEC: 60A/120A/180A, max. 24V diode voltage. 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 load impedance abruptly. It can be air-cooled or water-cooled. The DPD has a multifunctional interface (USB, RS232, RS485, TCI / IP) and can be operated via an external PC, via integrated touch display (optional) or via buttons / LEDs. CW modes can be configured. DPD can also be operated with an external trigger input. Device has LED status indicators, ON / OFF buttons and Emergency Stop button.



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

Technical subjects to change without notice.

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