



PBF Group B.V.

Powering your
Innovation

Power supply systems in the laser market

EPIC Online Technology Meeting on Blue and UV Laser Diodes, April 2020.

PBF

- ⏻ Former Philips company, now part of the SFC energy group
- ⏻ Production and R&D in The Netherlands and Romania
- ⏻ Specialized in power supply systems for LASER
 - ⏻ Off the shelf
 - ⏻ Modified standard
 - ⏻ Full custom
- ⏻ Group level: 250 Employees

Technology

- ⏻ High power, 1kW to more than 100kW electrical power
- ⏻ Voltage sources and fast current drivers
 - ⏻ Rise and fall times of 5 μ s
 - ⏻ Compact design, 21kW in 3HE (133mm) 19"
 - ⏻ Special designed for DC and pulsed operations
 - ⏻ Power Supply Systems available for Fibre laser and diode bars
- ⏻ Integrated Safety interlock (PIe)
- ⏻ Fan, baseplate or water cooled

Fibre laser power supply system LASY18A-12C



- ⏻ Up to 12 current channels of 900W each (total 10.8kW)
- ⏻ Integrated water cooling
- ⏻ Fast rise and fall times
- ⏻ Double safety interlock (Ple) eliminates the need of external safety components

Diode bar power supply system LAPS21000

- 🔌 21kW current driver low profile 3HE (133mm)
- 🔌 Integrated water cooling
- 🔌 Fast rise and fall times
- 🔌 Scalable to 7kW, 14kW or 21kW
- 🔌 Double safety interlock (Ple) eliminates the need of external safety components
- 🔌 45V/540A, 90V/270A, 135/180A and 180V/135A options



Power supply for laser LAPS3800

- 🔌 Baseplate or water cooled
- 🔌 Special designed to handle any pulsed loads
- 🔌 Universal 3 phase mains input
- 🔌 Can be put in parallel or in series
- 🔌 4 units fits in one 19" housing, resulting in 15.2kW
- 🔌 Voltage programmable from 2V to 56V



Thank you for your attention!



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