

FEDAL

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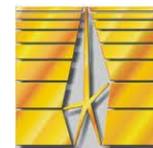
Date of foundation : 2002

Product line: development and production of laser electronics and electronics for optical devices

Our customers:



Montfort Laser™
GmbH



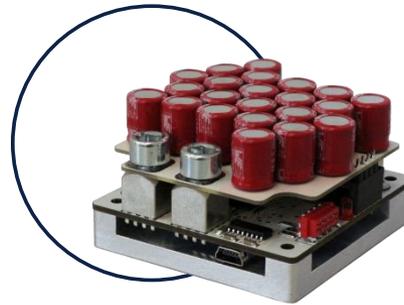
Ioffe
Physical-
Technical
Institute



Laser power supplies



Diode drivers



Multichannel electric power supplied system for diode-pumped lasers MEPSS

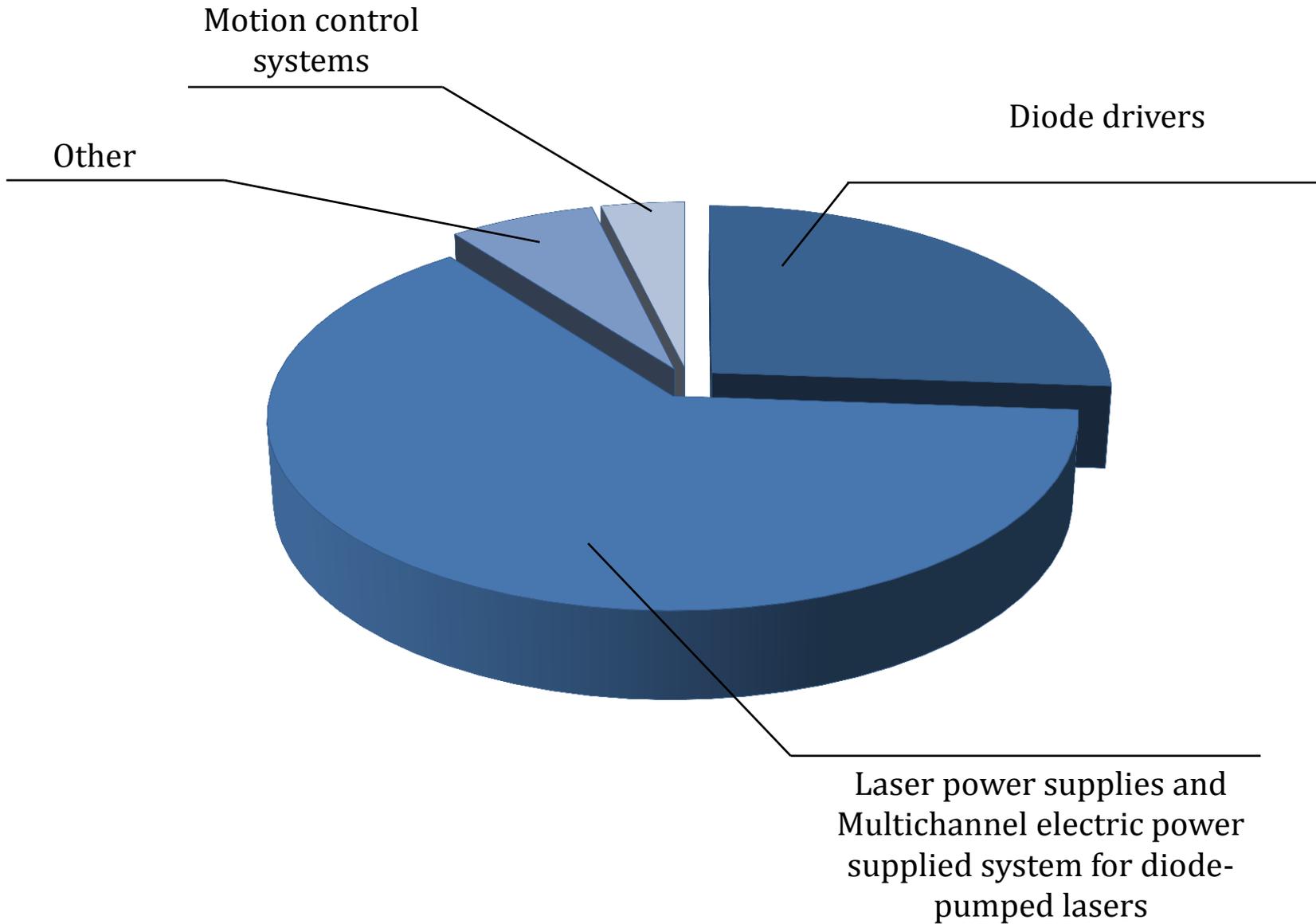


Charging modules

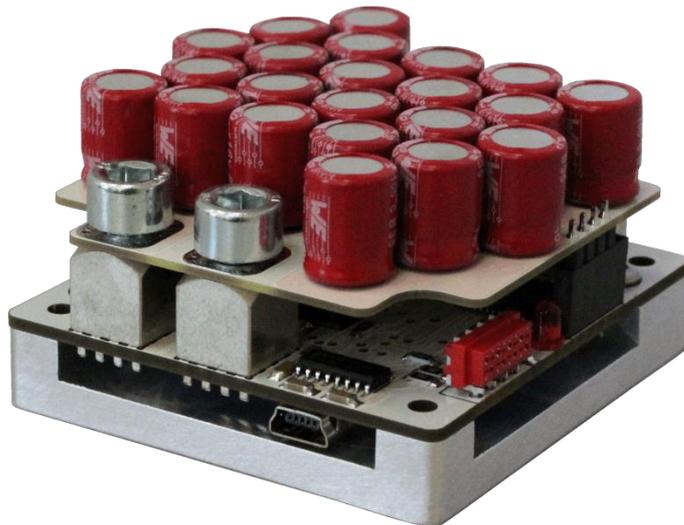


Applications:

- Companies specializing in the production of laser equipment.
- Scientific researches (eg, electrons acceleration nonlinear plasma waves to high energies)
- Military industrial sector (laser guidance, beam path conditioning for high-power laser Systems, laser anti-missile systems, space lemetry)
- Laser fusion
- Medicine (optical coherence tomography, photodynamic therapy, laser surgery, laser device for hyperthermia skin tumors)
- Instrumentation (laser rangefinders, laser system for remote detection of explosives, reed speed, remote sensing)



New solution for the Chinese market

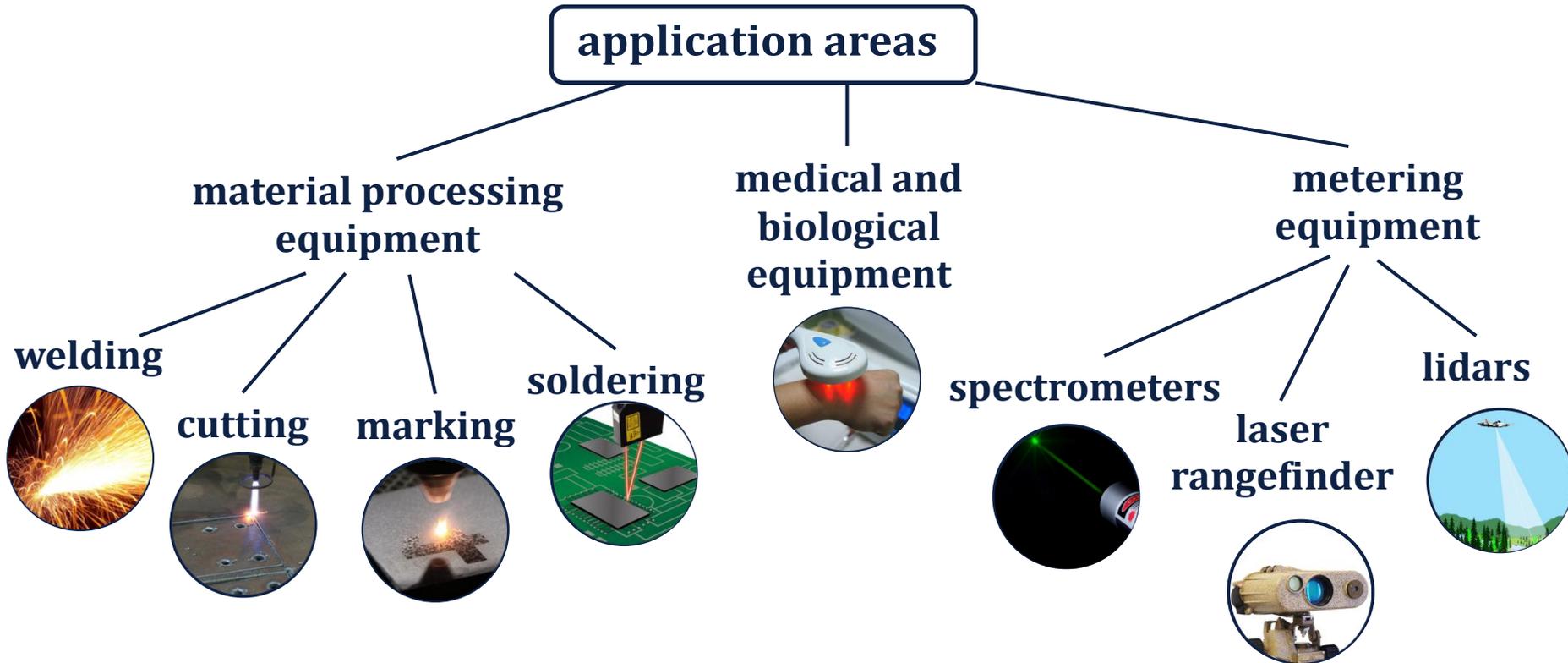


Diode drivers

OEM
low-cost
compact
high efficient and highly
reliable technical solutions

OEM

The high level of integration for your application



OEM

Simple integration

easy control

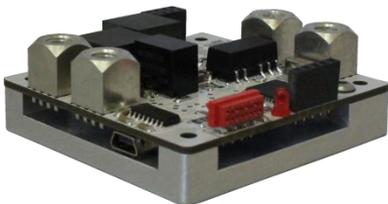
digital control

analog control



software and drivers
for Labview included

communication protocol



accessible mechanic

You can install our driver
where you want



water cooling

air cooling

Low-cost

- **Low cost and high quality solution in best for your appliances**
- **We makes special offer for the Chinese market**
- **Total price:**
 - \$ 450 per 1 kW of output electric power for 1 or more pieces**
 - \$ 370 for 50 or more pieces**



Compact

Highest Power Density available 1kW in half-brick size (60x60mm)



You can integrate it into your laser system

High efficient and highly reliable technical solutions

Current

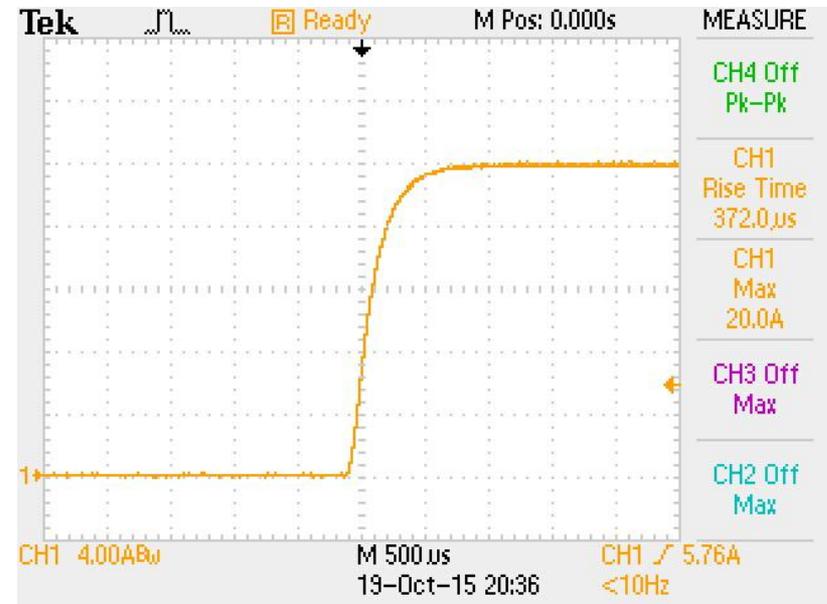
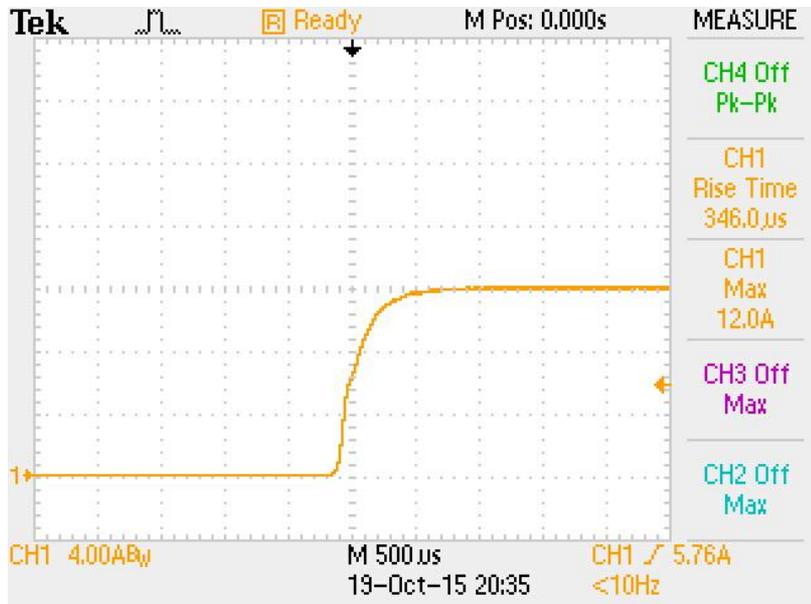
**up to 20A at 50V
up to 70A at 10V**



Do you know that $4.375 * 10^{20}$ electrons passes per second at current 70A through the laser diode

High efficient and highly reliable technical solutions

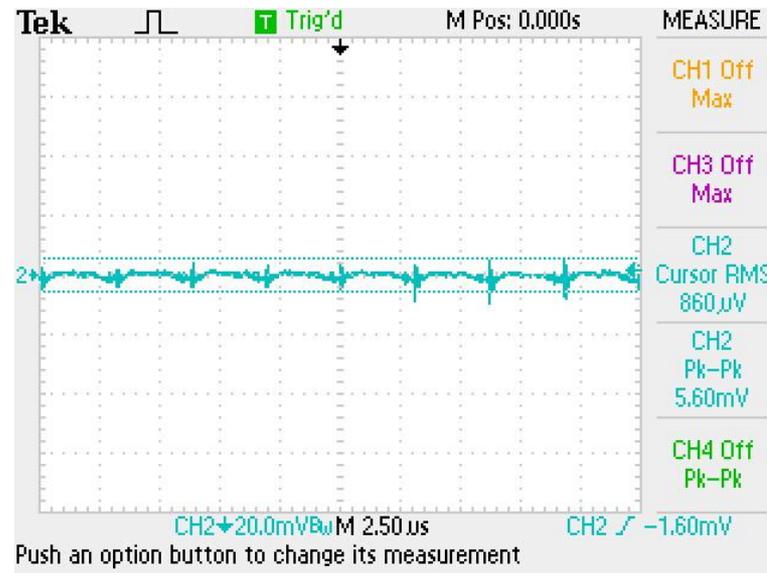
Soft Start: <500 ms without overshooting



Your laser diode is safe at start up!

High efficient and highly reliable technical solutions

The ripple amplitude <math>< 15 \text{ mA}</math>



The ripple amplitude (2 mA / mV) @ 12A, 35V



Your laser diode is safe when operates.
Your laser radiation has high stability.

High efficient and highly reliable technical solutions

Current protection with crowbar clamp across the output and adjustable current limit



Over temperature protection with over temperature warning



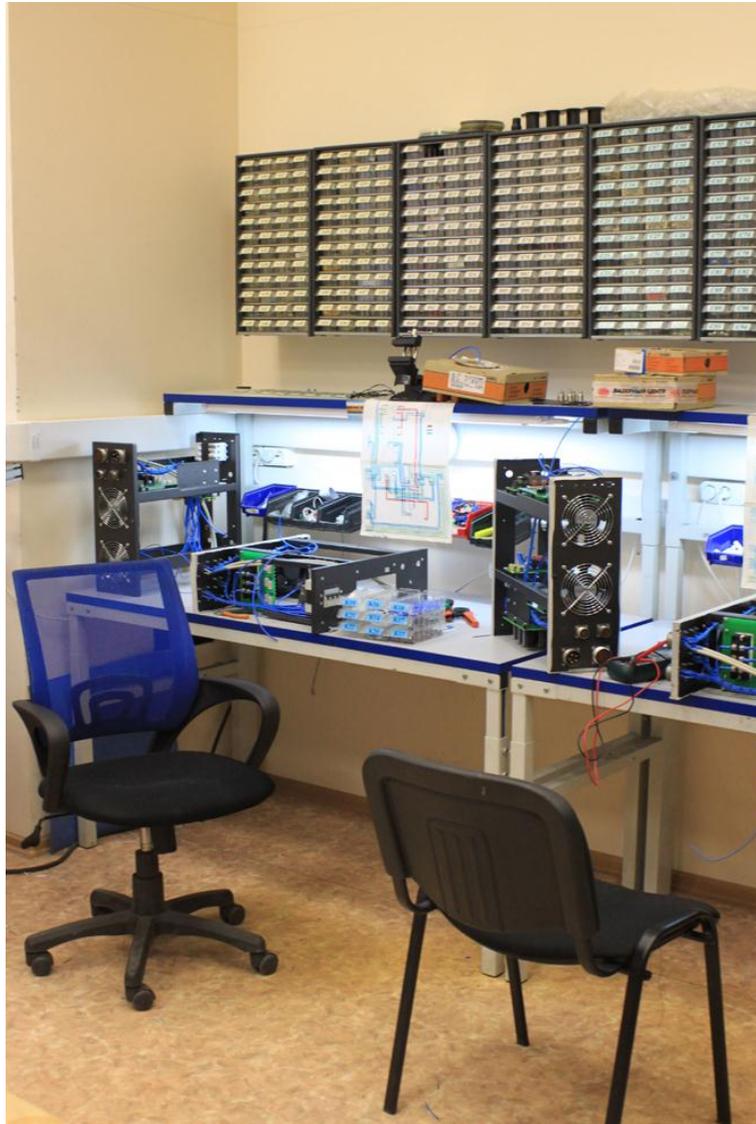
Reverse current protection diode



Your laser diode is safe under all circumstances

About us

Factory
Events & Trade Shows
Diplomas
Contacts



We participate in the world's largest exhibitions:

- SPIE Photonics West (San Francisco, USA);
- Laser world of Photonics (Munich, Germany);
- Photonics Russia (Moscow);
- Optic Expo (Moscow);
- Laser Optic (Saint-Petersburg);
- OVC EXPO (Wuhan, China)

and other scientific and trade events







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It works!

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