Welcome at the product presentation of SFC,

LAPS-R and the LACS series





René Dingshoff Technology manager



SFC Energy B.V.

is part of the

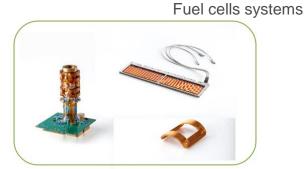
SFC Energy Group



- Headquarters in Germany
- Stock listed (F3C.DE)
- Approx. 300 employees
- **5** locations:
 - Germany (HQ)
 - The Netherlands
 - **US**
 - Canada
 - O Romania







Coils & linear drives



Power supply solutions



New products: LAPS-R and LACS series



New product 1



New product 2



LAPS-R series

Power

- **8 to 20kW** in just 19" 3U
- U Voltage range from 9V to 180V
- Currents up to 400A per unit
- Liquid cooled

Flexible

SFC

- (b) 180Vac to 528Vac line-line, 50/60Hz, no derating at low line
- Parallel and Serial operation
- Modular and Scalable
- 24V Auxiliary supply option

Safety Interlock PLe

- Double safety interlock
- Safety standard ISO 13849-1

Transient response

- U Improved transient response
- O-100% load: <0.9% voltage dip</p>
- © Excellent pulse load capability at any frequency

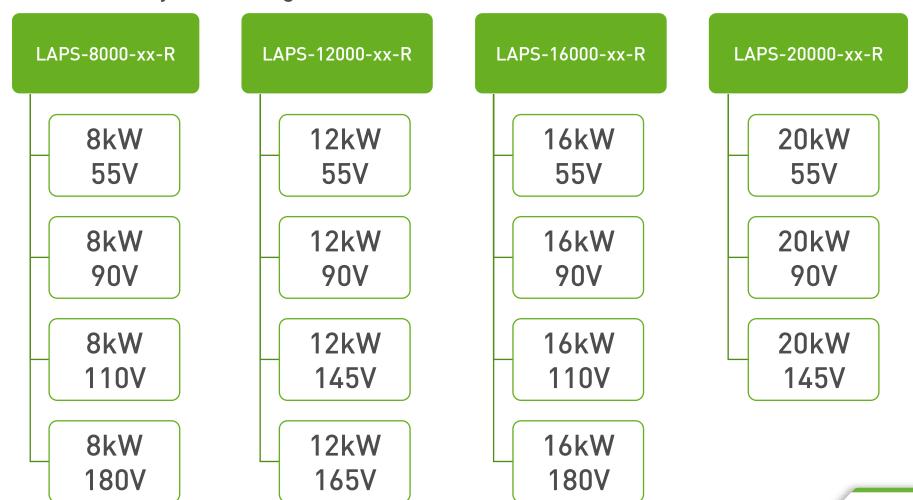
Interface

- Galvanic isolated
- Digital and/or analog set-points
- Control and monitoring



LAPS-R family

O Possible system configurations LAPS-R series: 3U 19" unit





New products: LAPS-R and LACS series



New product 1



New product 2



LACS series

Power

- **3.8 to 19kW** in just 19" 3U
- Up to 8 fast current driver channels
- Up to 65V, 35A, 2.3kW per channel
- Liquid cooled

Flexible

- (b) 3Phase, 180Vac to 528Vac line-line, 50/60Hz, no derating at low line
- Modular and Scalable
- Drivers can be put in parallel
- U Systems can be put in parallel

Safety Interlock PLe

- Double safety interlock
- Safety standard ISO 13849-1

Fast current drivers

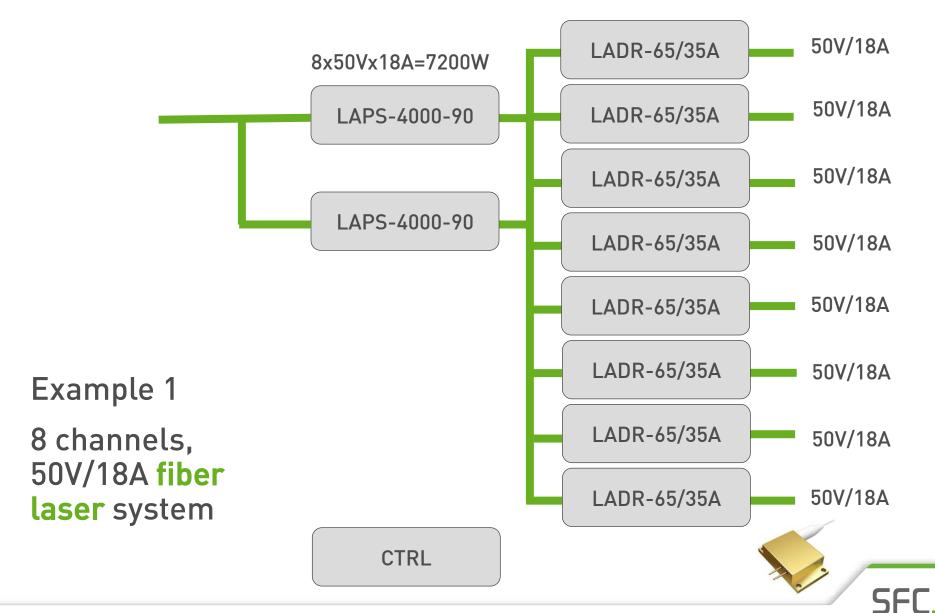
- Fast rise and fall times of 10µs (programmable)
- Overshoot compensation
- Excellent pulse to pulse stability

Interface

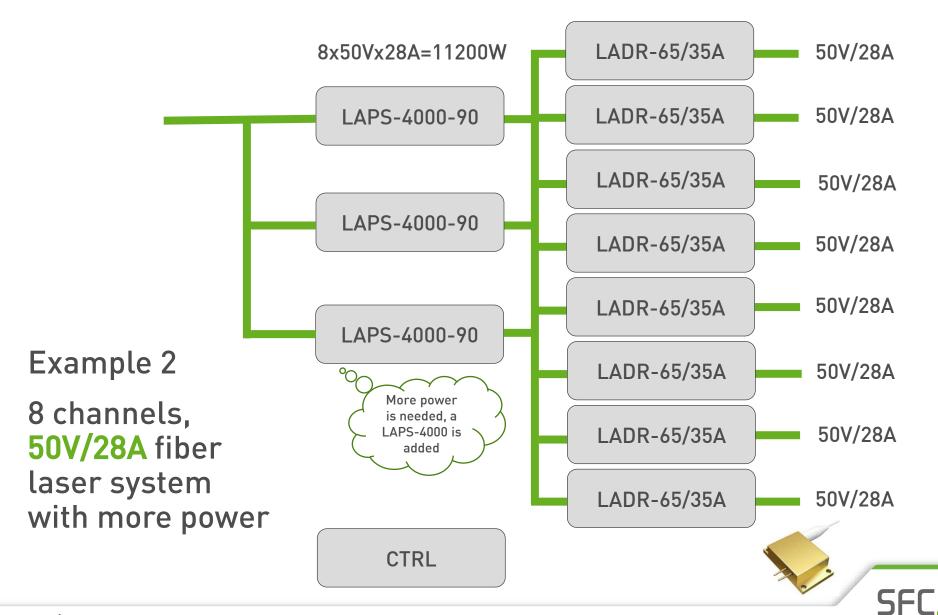
- O Galvanic isolated
- Multiple digital and/or analog set points per channel
- Advanced trigger possibilities
- Control and monitoring



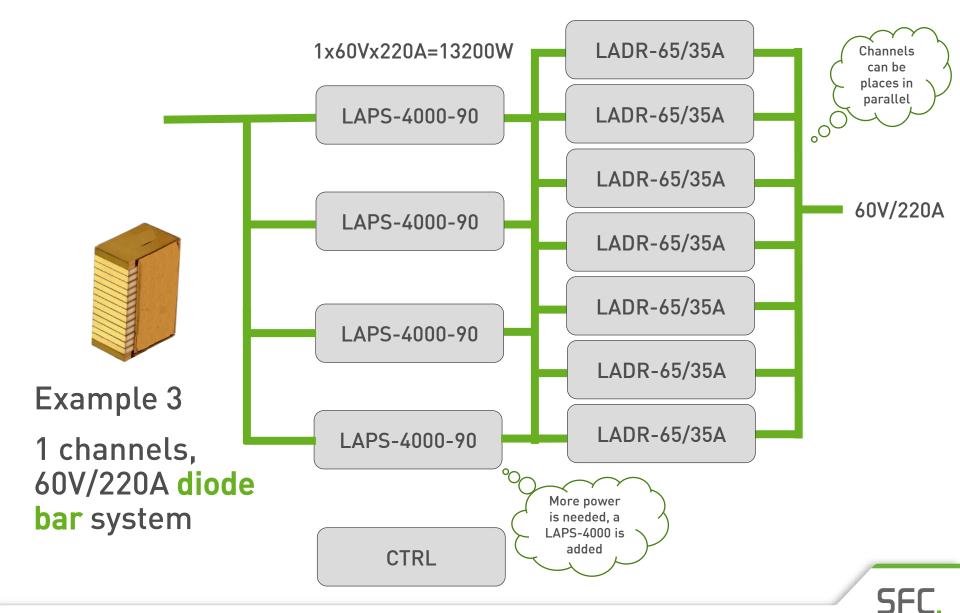
LACS - new modular concept

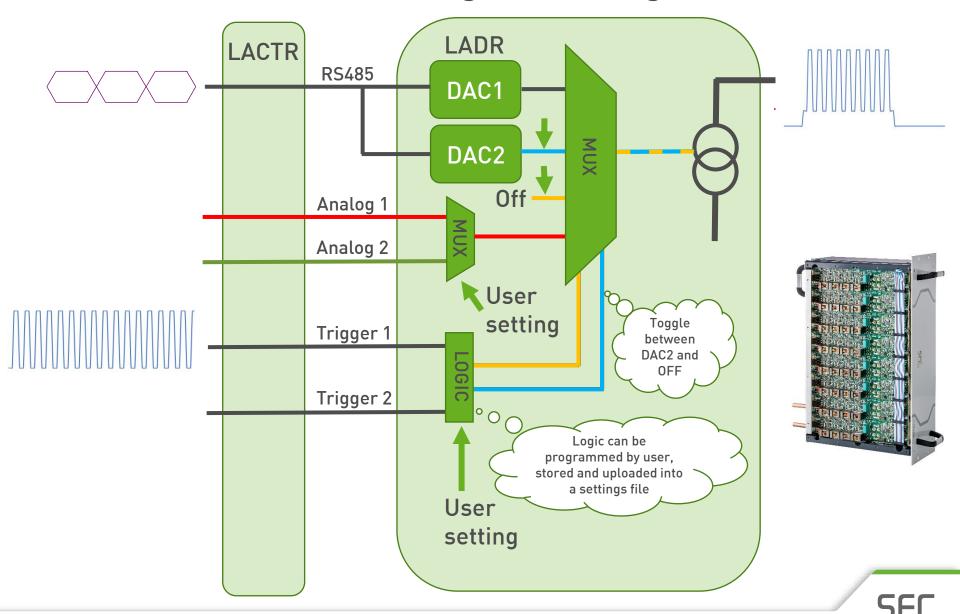


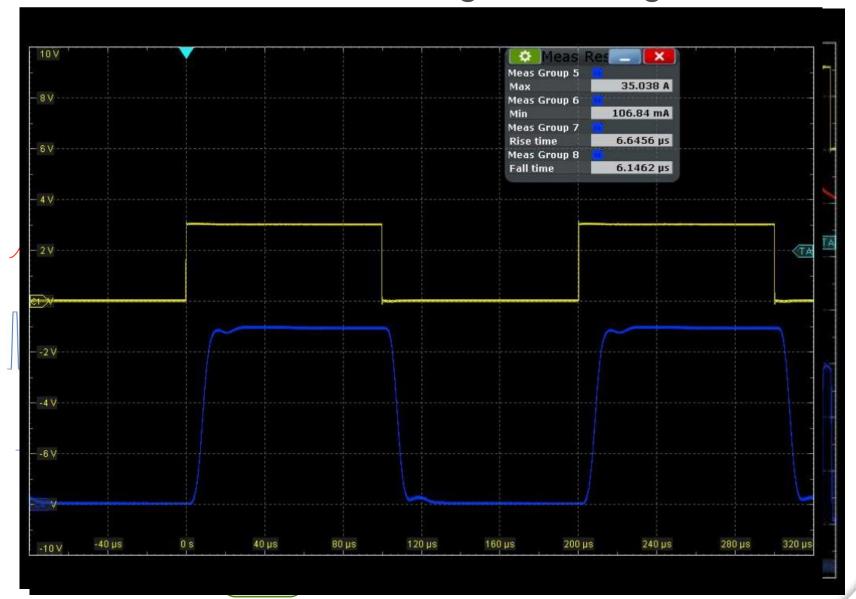
LACS - new modular concept



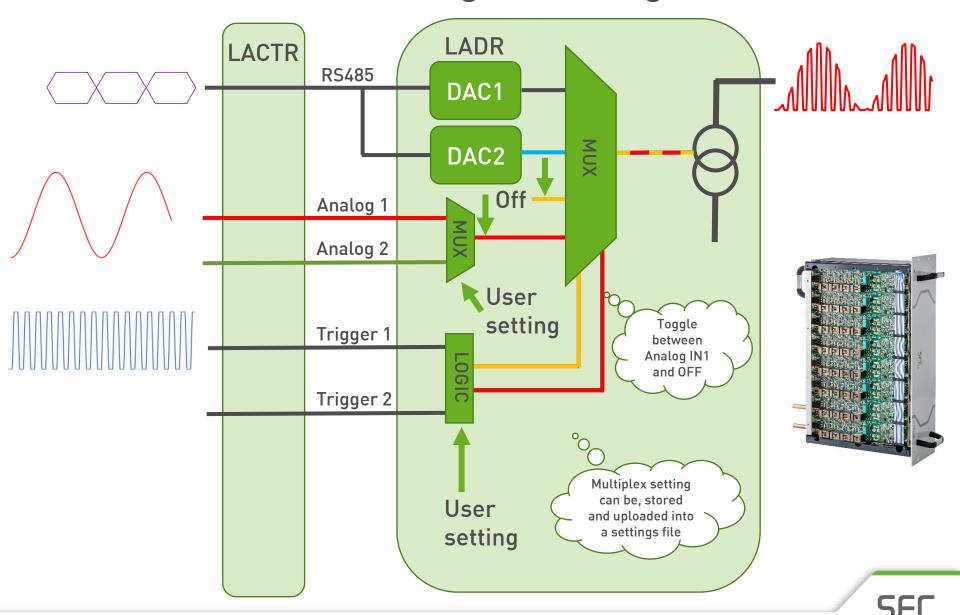
LACS - new modular concept

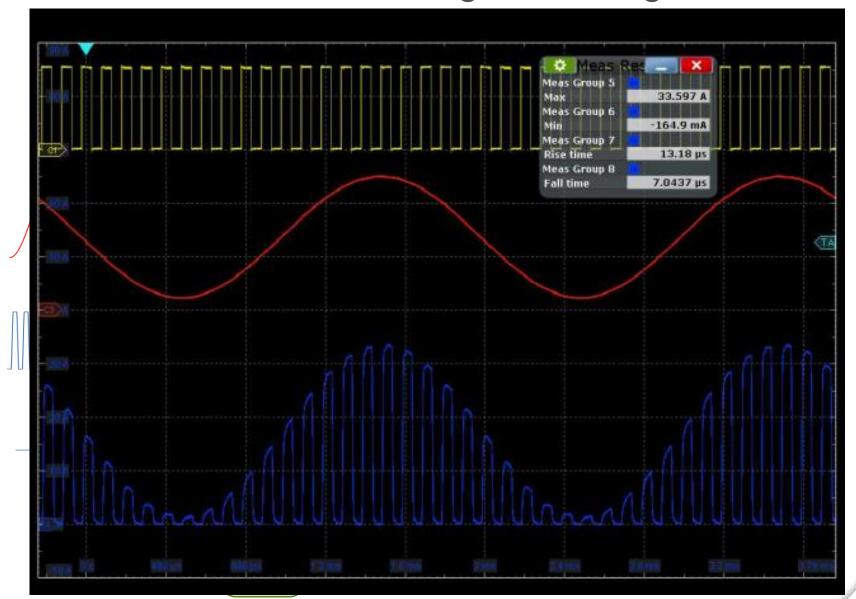




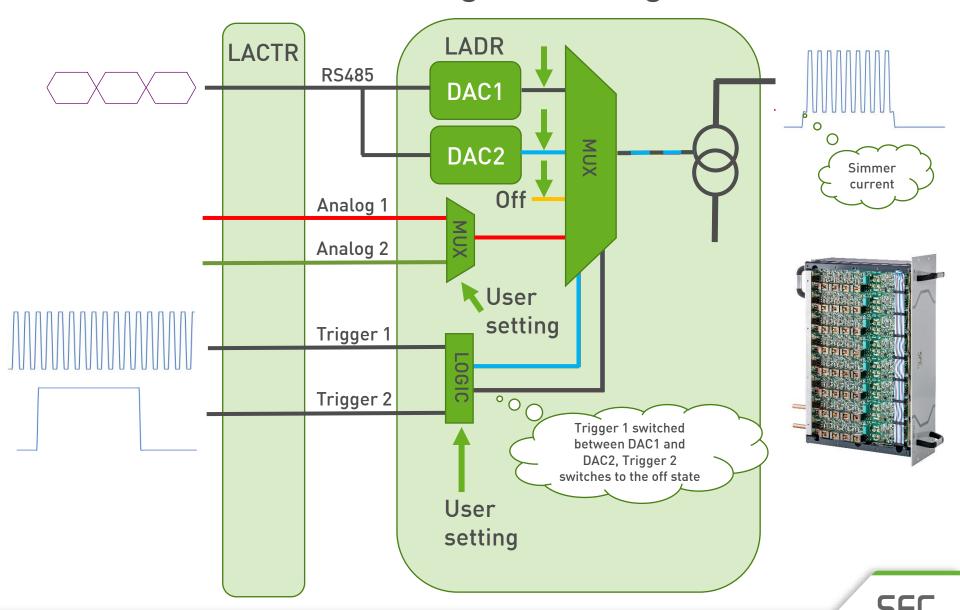






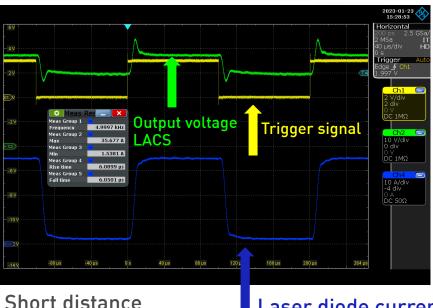






LACS - overshoot compensation







Short distance

Laser diode current

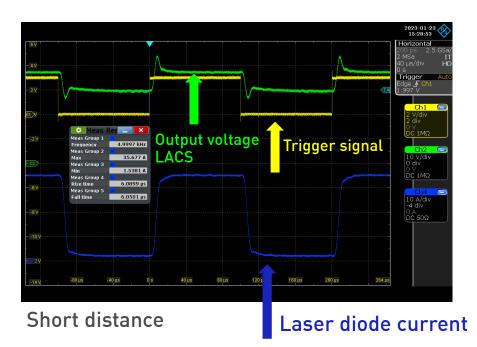


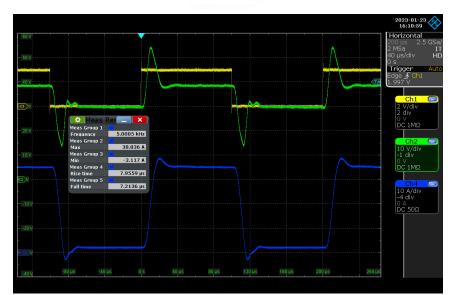
LACS - overshoot compensation



Long distance







Long distance, current overshoot due to inductance cable



LACS - overshoot compensation



Long distance

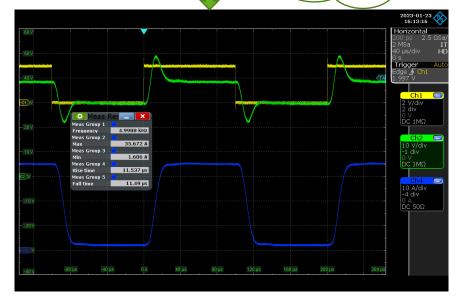
Up to 15 meter can be compensated

Change setting

User can program the compensation (in 8 steps). Setting can stored and uploaded



Long distance, current overshoot due to inductance cable



Overshoot compensated



Visit our website www.sfc-power.com



LACS series



LAPS-R series





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Exhibitions:



June, 27-30, 2023 Munich, DE

July, 11-13, 2023 CA, USA

