



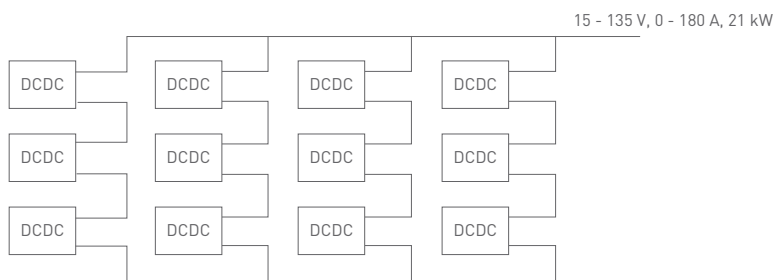
## LAPS21000

The LAPS21000 is a flexible Power System, consisting of 3 PFC frontends of each 7 kW and 12 DCDC converters of 1750 W. These DCDC converters can be switched in any serial or parallel configuration. This flexible approach makes it possible to offer over many different configurations which can vary from e.g. 12 DCDC converters in parallel to individual channels with different output configurations. By removing a 7 kW PFC and 4 DCDC converters, a 14 kW system can be built. In the same way, a 7 kW can be made.

Each output channel can be used as a high speed current driver with rise and fall times below 100  $\mu$ s which makes it an ideal power supply for laser diode bars or as an ACDC front end to drive fiber laser systems.

### Configuration examples

A power supply system with 135 V / 180 A can be built by using 3 DCDC converters in series and 4 converters in parallel.



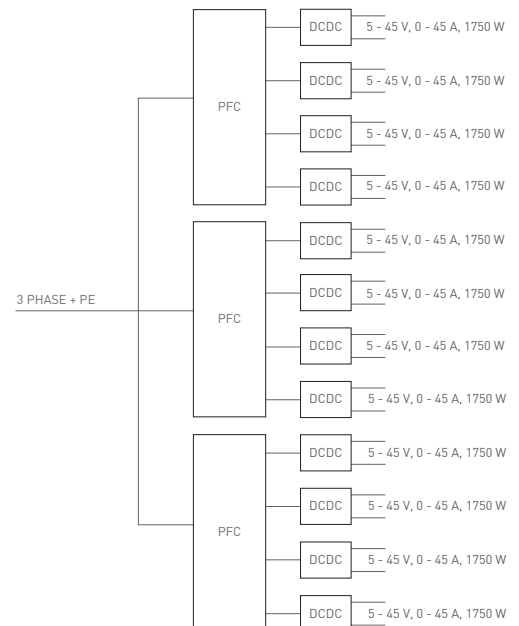
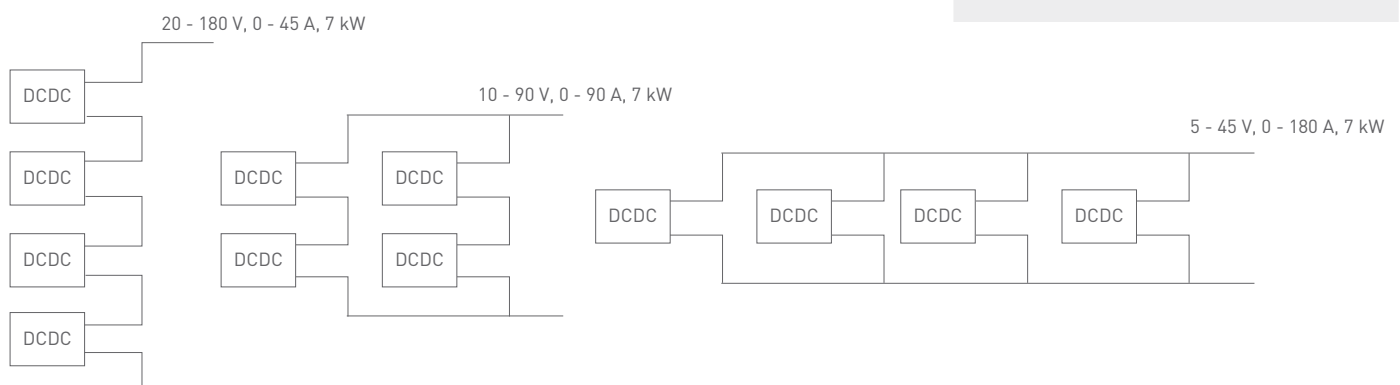
The 12 channels can be switched to a multi-channel power supply system. The modularity of the system allows to program each output channel.

### Example

Channel 1: 20 - 180 V, 0 - 45 A, 7 kW

Channel 2: 10 - 90 V, 0 - 90 A, 7 kW

Channel 3: 5 - 45 V, 0 - 180 A, 7 kW



### Safety interlock

The LAPS21000 system has a performance level e safety interlock according to ISO13849-1. For operation in a laser system there is no need to repeatedly switching off the mains voltage. This limits the stress on the power supply and increases the up time of the total laser system.