

## Short Description

# Liduro LCU300 Series Power Electronics Modules



The liquid-cooled power electronics modules from Liebherr have been developed for reliable operation in harsh environmental conditions for a wide variety of industrial applications. The power range extends from 110 kW to over 2,000 kW with just two different design sizes and can be operated in the form of a cabinet installation solution or a single drive unit. The identical modules can be configured as drive or regenerative units and can be planned in parallel operation for multiple-axis drive units with a common intermediate direct voltage circuit for very high ratings and partial redundancy.

High speed, reliable safety functions and integrated measuring equipment ensure long and safe operation of the applications. Tailored and parameterisable control systems allow precise and highly dynamic processes in industrial applications with Liebherr control units.

### Features:

- High efficiency
- High power density
- High overload capacity
- Long service life
- Maintenance free
- Robust design
- Large power range
- Fast protection functions
- Modules of the same design
- Integral voltage/current measurement
- Simple cable/bus bar connections
- Control systems for specific applications
- Efficient liquid cooling system

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# Technical data

## Liduro Power Electronics Modules

### Technical data

Type		LCU300-NG1	LCU300-NG2
Voltage class	[V]	380-500-690	380-500-690
Circuit		DC/AC	DC/AC
Power range	[kW]	110/132/160/200/250/315/355/400/500/ 560/630/710/800/1,000	1,150/1,600/2,000/2,500*/3,000*/3,500*/4,000*/ 4,500*/5,000*/5,500*
Output frequency range	[Hz]	0 - 150	0 - 150
Supply voltage	[VDC]	24	24
Cooling		Liquid	Liquid
Temperature range	[°C]	-40 to +50	-40 to +50
Weight	[kg]	61	104
Dimensions (HxWxD)	[mm]	800x215x445	890x215x580
Protection class		IP21	IP21
Installation		Cabinet – wall-mounted	Cabinet – wall-mounted

\* Parallel circuit

### Options

- Integral braking chopper
- Internal control unit
- Speed sensor interface
- Local keypad with display
- Liduro Fast Protection System
- Liquid cooling unit
- Grid choke / du / dt Choke
- Control unit / Auxiliary energy supply
- Complete cabinet installation solutions