

# Greater efficiency is hard to find.



Lenze  
BlueGreen  
Solutions.



Lenze Smart Energy Recovery is the perfect complement to Lenze's inverters when it comes to ensuring an optimum energy balance.

Extremely efficient energy recovery is achieved through the use of state-of-the-art technology. The high level of efficiency and the savings on external filters mean these products pay for themselves in a short space of time. And thanks to their easy design, the units are ready to be deployed immediately without the need to set any parameters. It doesn't get much more efficient than this!

## Features

Compact design thanks to the absence of external filters and the use of state-of-the-art technology

- Separation of the infeed and feedback paths allows for optimum dimensioning
- Unit is easy to retrofit into existing systems via a direct connection to the DC bus of the inverter

## Technical data

		r700-C24	r700-C48
Energy recovery on continuous power	P [kW]	12	26
Peak performance energy recovery	P [kW]	24	48
DC voltage range	U [VDC]	255 ... 800	
Mains voltage range	U [VAC]	3 x 320 ... 528	
Dimensions	HxWxD [mm]	356 x 135 x 220	
Degree of protection		IP20	

# Lenze Smart Energy Recovery

Inverters

**We believe in making use of energy that already exists.**

Many applications with electric drives require frequent accelerating and/or braking. When accelerating or lifting material, electric energy is converted into kinetic or potential energy, some of which is recovered when braking or when lowering material.

Nowadays this recovered energy is often converted into heat via a brake resistor and is then lost unused. But in some applications it is worth passing on this braking energy for another use, thereby improving energy efficiency.

## Practical advantages:

- Regenerative power can be scaled by connecting several modules in parallel regardless of the supply power
- Collective operation in a single system with a brake chopper, e.g. to handle peak loads with the brake resistor circuit
- Extensive mains voltage range for global use
- Space-saving solution thanks to the compact, lightweight design
- Minor installation expenses and no need for any additional filtering measures directly at the mains or the DC bus connection
- Regenerative feedback mode is automatically deployed if regenerative energy is encountered in the DC bus connection, allowing for easy handling
- The unit pays for itself in a short amount of time thanks to its high efficiency and the absence of external filters
- Minimum effort and expenditure required when retrofitting existing installations via the DC bus connection and the mains

Mains connection 3 x 400 ... 480V

