

EU118 Series 5~12KW | Three Phase | 380VAC Infinisolar

## Table of Contents

- Why Three-Phase Solar Storage Matters Now
- Brewery Goes Off-Grid: A Munich Success Story
- What Makes the 380VAC System Tick?
- Beyond Panels: Future-Proofing Your Energy Mix

### Why Three-Phase Solar Storage Matters Now

Europe's energy rollercoaster has left businesses scrambling. That's where the EU118 Series steps in, offering 5-12KW output through a robust three-phase system. Unlike single-phase setups that struggle with heavy machinery, this 380VAC solution handles industrial loads like a champ.

Take Spain's recent solar tax reforms. Hotels in Malaga saw 40% higher ROI using three-phase storage versus single-phase systems. Why? Because when your air conditioning runs 24/7 and kitchen equipment peaks at dinner rush, you need balanced power distribution - something the Infinisolar architecture delivers through its dynamic phase optimization.

### Brewery Goes Off-Grid: A Munich Success Story

Here's the thing most manufacturers won't tell you: battery lifespan depends on discharge patterns. The Himmelbräu microbrewery replaced their aging lead-acid system with the EU118's lithium-ion setup. Result? Energy costs dropped 62% in 18 months. Their secret sauce:

- Smart load shifting during cloudy days
- Peak shaving during utility rate surges
- 3-phase motor support for bottling lines

"We're basically brewing with sunlight now," says operations manager Klaus Weber. "The system automatically prioritizes solar intake while keeping our cold storage at -25°C. No more brownout anxiety during Oktoberfest!"

### What Makes the 380VAC System Tick?

Under the hood, the EU118's secret weapon is its multi-MPPT design. Unlike standard inverters that get confused by partial shading, this baby can handle up to 4 string inputs simultaneously. your east-facing panels

catch morning sun while west arrays grab afternoon rays - the system juggles both without breaking a sweat.

Key specs that matter:

- 97.5% peak efficiency (beats EN50530 standards)
- IP65 protection for outdoor installs
- 10ms transfer switch during grid failures

Wait, no - let me correct that. The hybrid functionality actually allows seamless transition between grid, solar, and battery power. No more flickering lights when storms knock out municipal lines!

Beyond Panels: Future-Proofing Your Energy Mix

With the EU Green Deal pushing carbon neutrality, forward-thinking factories are pairing these inverters with wind turbines. The 380VAC infrastructure handles variable inputs beautifully. A Danish dairy farm combines 8KW solar with a 5KW turbine, storing excess in 20kWh batteries for nighttime pasteurization.

Could this be the end of diesel generators? Well, maybe not entirely - but when your system pays for itself in 3-7 years (depending on local incentives), the math gets compelling fast. And let's not forget the PR boost from going green!

Q&A

Q: How does three-phase benefit small businesses?

A: It enables running heavy equipment without voltage drops - think commercial ovens, HVAC systems, and 3D printers.

Q: What's the typical installation timeline?

A: Most projects take 2-5 days, depending on existing electrical infrastructure and roof accessibility.

Q: Can it integrate with existing solar panels?

A: Absolutely! The system works with both new and legacy PV arrays up to 1500VDC input.

Web: <https://www.mavhone.co.za>