Gietron
Engineering the Future of Energy

HELIOS ESS + Gietron Hybrid Inverter

Smarter Power, Simplified Integration

Empower every home with dependable, high-efficiency energy storage. The combination of Discover Energy Systems' HELIOS ESS and Gietron 10k hybrid Inverter delivers intelligent backup power and solar self-consumption in one unified system.

Engineered for long-term reliability and straightforward installation, this pairing brings together advanced battery control, fast UPS-grade switching, and versatile system design that adapts to residential and light-commercial projects.



Discover HELIOS + GietronHybrid Inverters:

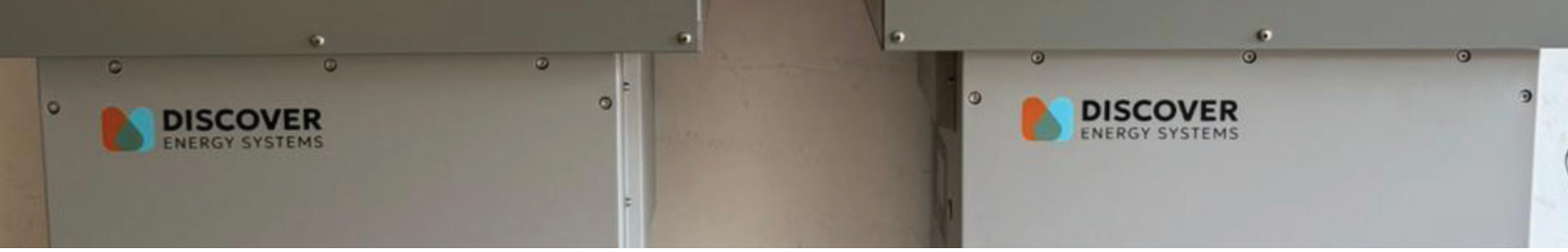
- **Instant Backup.** UPS-class transfer speed (< 10 ms) keeps power steady when the grid drops.
- **Engineered for Everyday Use.** Certified lithium battery and inverter platform built for real-world reliability.
- **Expandable Capacity.** 16 kWh usable per HELIOS ESS; parallel up to ≈ 580 kWh.
- **Clean Installation.** Compact form factor, dedicated conduit options, and built-in LYNK II mount simplify wiring.
- **Versatile Operation.** DC or AC-coupled configurations with generator-charging support and three-phase capability.

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Ready-to-Deploy Energy Storage Solution

Feature	Gietron 10k
AC power (continuous)	10.0 kW
Surge / Peak Power	
Best Fit Use Cases	Whole-home backup, large residential and light C&I systems
Backup Transfer Time	< 10 ms (UPS function)
Rated Output Current	41.7 A @ 240 V
Max Battery Charge / Discharge Current	200 A
Solar Input Capacity	Up to 15 kW PV (1.5 DC/AC ratio)
MPPTs / Strings per MPPT	3 / 2 strings per MPPT
Enclosure / Operating Temp.	IP65 / –25 °C to +60 °C (derating > 45 °C)
Nominal AC Voltage	120/208 V or 120/240 V split phase
Efficiency	98.1 % peak / 97 % CEC
Why this counts	Inverter charger rated 200 A. Two HELIOS deliver 400 A combined for full performance and surge margin.
Usable Energy at Recommended Configuration	32 kWh
Per-battery Capability	16 kWh, 51.2 V, 314 Ah, 200 A charge and discharge, IP65 outdoor rated.

** (B) Built-in breaker: BAT side: 80V/250A, Grid side: 400V/100A, GEN side: 400V/63A, LOAD side: 400V/100A.*

For Installers

- Outdoor-rated IP65 design for reliable field installs.
- Direct 48V DC integration with 200 A capacity.
- Closed-loop CAN communication.
- Clean, code-compliant wiring using conduit options.
- Scalable parallel configuration for future expansion.

For Home/Business Owners or Site Operators

- Seamless backup power with grid or generator support.
- Expandable storage capacity up to 580 kWh.
- Time-of-use and self-consumption ready.
- Compact footprint with quiet operation (< 60 dB A).
- 10-year warranty backed by Discover and Gietron service networks.

Simple & Flexible Installation Options



Gietron and HELIOS ESS simplify wiring while maintaining safety and compliance.

The wireway provides a clean, organized pathway for routing both power and communication cables while maintaining easy service access, making every installation professional in appearance, secure in operation, and straightforward to commission.

WHY CHOOSE THIS SOLUTION

The Gietron and Discover's pairing unites high-efficiency inverter control with advanced lithium storage to provide a resilient, grid-interactive backup system. Gietron's hybrid platform and HELIOS's 4th-generation BMS maintain closed-loop communication for accurate power management, simplified setup, and long-term reliability.

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