

# HELIOS ESS

## + Megarevo Hybrid Inverters Integration

**Built for Installers. Trusted by Homeowners.**

The combination of **Discover HELIOS Energy Storage Systems** and **Megarevo Split-Phase Hybrid Inverters (12–16 kW)** is designed with installers in mind. From conduit-ready enclosures to plug-and-play communications, this pairing delivers reliable whole-home backup with less time on the job and fewer service headaches.

With scalable storage, rapid transfer time, and advanced controls, HELIOS + Megarevo gives you a system that's straightforward to commission and easy to expand as customer needs grow.



### Discover HELIOS + Megarevo Hybrid Inverters:

- **Quick Turnaround.** Fast switchover keeps lights, appliances, and essentials running without delay.
- **Certified for Safety.** UL9540-certified storage and UL1741SA/SB-listed inverter simplify AHJ approval.
- **Scalable by Design.** Each HELIOS delivers 16.1 kWh, expandable up to 579 kWh.
- **Simplified Install.** Purpose-built conduit box, and quick-connect wiring reduce clutter and time on site.
- **Smarter Energy Use.** Supports TOU scheduling, generator input, EV charging, and VPP program participation.





## Ready-to-Deploy Energy Storage Solution

Feature	Megarevo 12K	Megarevo 16K
AC power (continuous)	12 kW	16 kW
Surge / Peak Power	13.2 kVA	16 kVA
Best Fit Use Cases	Whole-home coverage for medium-demand households	High-demand homes: HVAC, pumps, EVs, off-grid
Backup transfer time	< 20 ms	
Rated output current	50 A	66.7 A
Max battery charge / discharge current	250 A / 260 A	260 A / 280 A
Solar Input Capacity	Up to 18 kW PV	Up to 24 kW PV
MPPTs / strings per MPPT	4 MPPTs (1 string each)	
Enclosure / operating temp	NEMA 3R / IP65; -25°C to +60°C	
Efficiency	~96% CEC	
Recommended HELIOS		
Why this counts	Two HELIOS units (32 kWh) provide full performance with surge capacity	Two HELIOS (32 kWh) cover performance; three (48 kWh) recommended for off-grid or high PV
Usable energy at recommended configuration	32 kWh	48 kWh
Per-battery capability	16 kWh, 51.2 V, 314 Ah, 200 A charge and discharge, IP65 outdoor rated.	

### For Installers

- Outdoor-rated, wall-mount design reduces footprint.
- Conduit solutions and labeled terminations keep installs neat and code-compliant.
- Built-in closed-loop CAN communications speed commissioning.
- LYNK II Gateway unlocks cloud remote monitoring.

### For Homeowners

- Provides reliable whole-home protection during outages.
- Easy to expand capacity as needs evolve.  
From 16.1 kWh to over 579 kWh.
- Compatible with EV chargers, generators, and VPP programs.



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## Simple & Flexible Installation Options

HELIOS ESS is designed to connect seamlessly with Megarevo hybrid inverters, while maintaining safety and code compliance as top priorities. Installers can adapt the setup to match the project requirements:

- **Discover Generic Conduit Enclosure.** HELIOS ESS is designed to connect seamlessly with Megarevo hybrid inverters, prioritizing safety and code compliance above all else. Installers can tailor the setup to meet the project's specific requirements.
- **Custom / Installer-Supplied Wireway.** For projects with unique site conditions, contractors can fabricate their own protective channel, giving freedom to accommodate unusual layouts while maintaining safety and service access.

HELIOS conduit boxes provide lockable covers, clearly marked entry points, and integrated cable landings. The result: every install looks sharp, passes inspection, and is straightforward to commission.



950-0068  
PARALLEL  
BATTERY  
TO BATTERY  
CABLE SET



950-0070  
BATTERY TO  
INVERTER  
CABLE SET



950-0072  
BATTERY  
CONNECTOR  
SET

## WHY CHOOSE THIS SOLUTION

Together, **Discover HELIOS batteries** and **Megarevo hybrid inverters** form a resilient, scalable, and cost-effective energy storage solution. HELIOS provides 16.1 kWh, while Megarevo's split-phase design delivers strong surge handling and intelligent energy management.

This partnership empowers homeowners with **dependable whole-home backup**, smarter energy use, and the ability to expand as their needs grow. For trusted performance and peace of mind, HELIOS + Megarevo is the smart choice.