

Enerlution

HIGH-VOLTAGE THREE-PHASE SYSTEM

8-12 kW / 10-30 kWh High-Voltage ESS

High-voltage three-phase hybrid inverter + GH10 Pro battery
Integrated 380/400 V three-phase energy storage for residential and light-commercial applications, with backup capability and EMS supervision.

8-12 kW

Hybrid inverter

10-30 kWh

Battery options

380/400 V

Three phase



Enerlution

Compact high-voltage three-phase ESS architecture

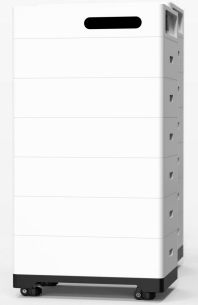
8-12 kW hybrid inverter with 10.65-31.95 kWh GH10 Pro battery and EMS monitoring.

HYTH 8000-12000



8-12 kW high-voltage three-phase hybrid inverter

GH10 Pro



10.65-31.95 kWh high-voltage stackable battery

8-12 kW

High-voltage three-phase hybrid inverter

10 / 15 / 20 / 25 / 30 kWh

GH10 Pro LiFePO4 battery options

IP65

Inverter and battery protection class

EMS / App

Status, alarms and energy data



**Inverter platform
HYTH 8000-12000**

**380/400 Vac three phase /
160-800 V battery**

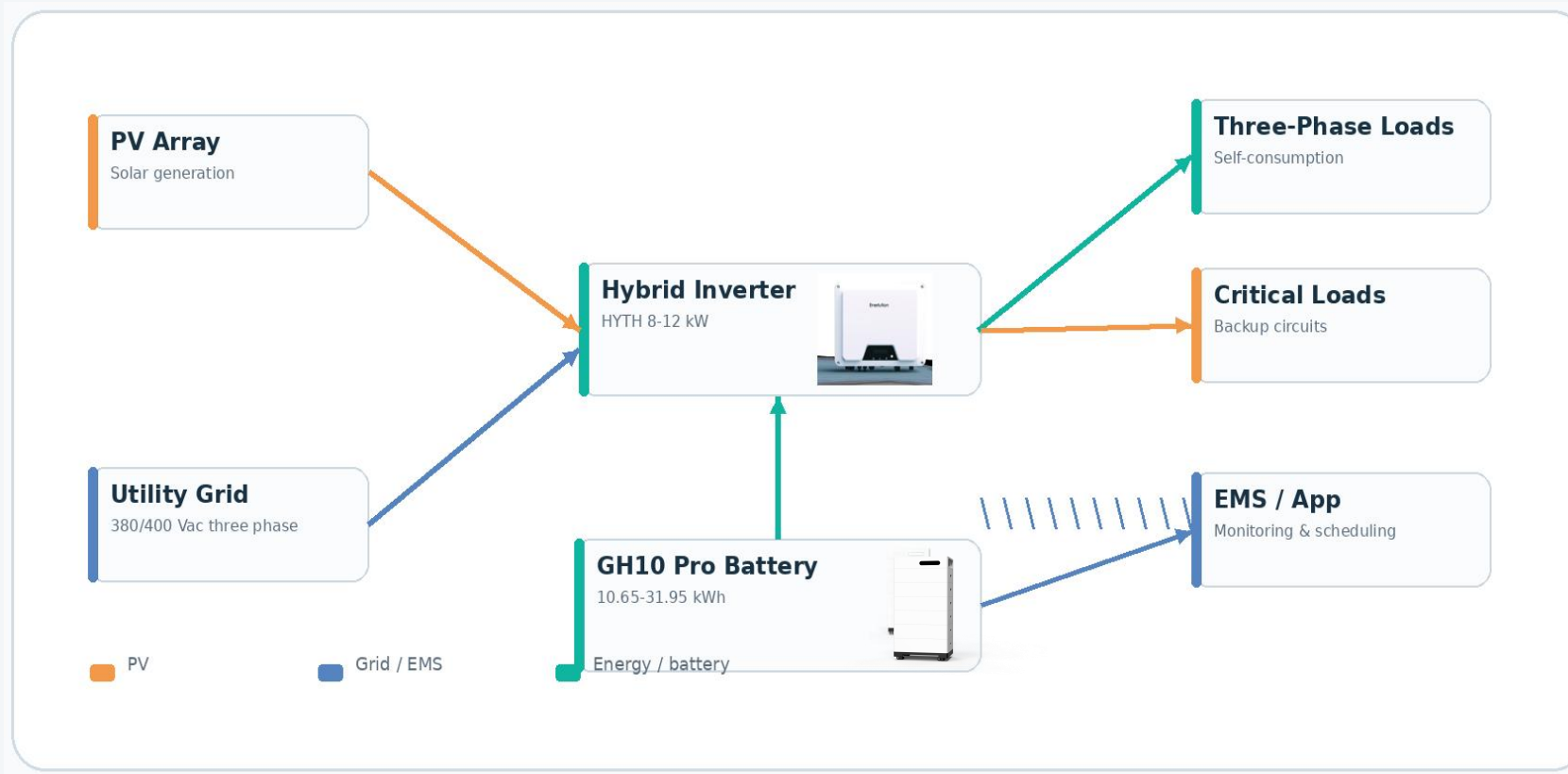


**Battery platform
GH10 Pro**

**10.65-31.95 kWh stackable
LiFePO4 battery**

HV three-phase architecture and energy flow

PV generation, utility grid, battery storage and household loads are coordinated through the hybrid inverter and EMS.



Three-phase AC

380/400 V architecture for residential and light-commercial loads.

High-voltage storage

10.65 to 31.95 kWh LiFePO4 capacity with high-voltage battery management.

Energy scheduling

Coordinates self-consumption, tariff schedules, backup reserve and critical loads.

Core product specifications

Selected electrical, environmental and communication parameters for the proposed system configuration.



HYTH 8000-12000

High-voltage three-phase hybrid inverter

Rated AC power	AC output
8-12 kW	380/400

PV input	12-18 kW max PV, 1000 V max, 2 MPPTs
Battery input	160-800 V, 25 A charge / discharge
AC output	8 / 10 / 12 kW, 380/400 V
Backup	<10 ms transfer; three-phase backup output
Protection	IP65; RS485 / Wi-Fi / 4G / LAN



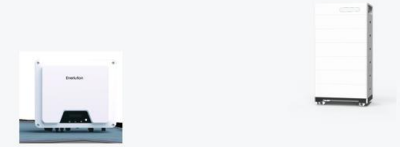
GH10 Pro

High-voltage stackable LiFePO4 battery

Energy (kWh)	Voltage
10.65-31.95	204.8-614.4 V

Chemistry	LiFePO4, 90% DOD
Current	35 A charge / 35 A discharge
Cycle life	>6000 cycles @25°C, 0.5C
Installation	Floor-standing stackable; 2-6 modules
Protection	IP65; discharge -20~55°C

Battery data: GH10 Pro datasheet | Inverter data: HYTH 5000-15000 datasheet



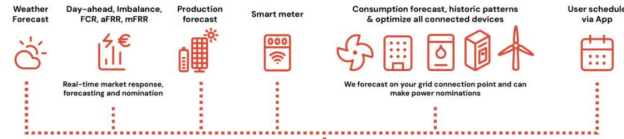
Energy Market Access & Forecast Integration

Integrates market signals and forecasts for locally informed operation.

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Local Optimization Algorithm

Schedules assets using tariffs, weather data and operating history.



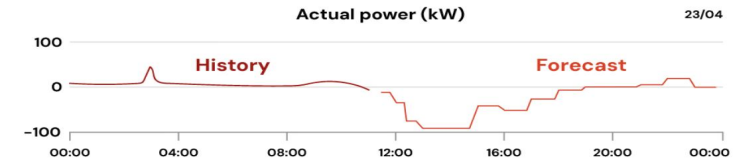
Backup Power & Load Prioritization

Maintains reserve SOC and prioritizes critical loads during grid outages.



Consumption & Production Forecasting

Anticipates demand and PV output to improve dispatch and self-consumption.



Curtailement Management

Limits PV export during negative-price or imbalance-risk periods.

