

# Deye SUN-15K-SG05LP3-EU

Product code: F.deye.3f.H.15k-SG05LP3-EU



Deye SUN-15K-SG05LP3-EU – 15 kW Hybrid Inverter for Demanding PV Systems

The Deye SUN-15K-SG05LP3-EU is a modern three-phase hybrid inverter with a power output of 15 kW, designed for medium and large photovoltaic installations. With support for low-voltage batteries (48 V), dual MPPT tracking, and operation in both on-grid and off-grid modes, it offers a versatile and reliable energy management solution.

## Product variants

Index	Price
<b>Deye SUN-15K-SG05LP3-EU</b> F.deye.3f.H.15k-SG05LP3-EU	Product prices only visible after login. If you do not have an account, please register.

## Product description

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### Key Benefits

High efficiency – up to 97.6%, with MPPT tracking accuracy above 99% for optimal energy conversion.

Flexible energy storage – compatible with both lithium-ion and lead-acid batteries operating between 40–60 V.

Parallel operation – allows for connection of up to 10 units in both on-grid and off-grid configurations.

Diesel generator support – enhances energy independence and ensures emergency power availability.

Advanced protection features – including OVP, OCP, AFCI, leakage current detection, and Type II AC/DC surge protection.

Smart battery management – up to 6 configurable time periods for battery charging and discharging.

Retrofit-ready – AC Coupling functionality enables easy integration with existing PV systems.

#### Technical Specifications

Output power: 15,000 W

Maximum PV input power: 30,000 W

MPPT: 2 trackers (2 MPPT inputs)

Charge/discharge current: up to 280 A

MPPT voltage range: 160–650 V

Compatible batteries: 40–60 V (Li-ion / Pb)

Communication interfaces: RS485, RS232, CAN, WiFi, LAN, GPRS, Bluetooth (optional)

Protection rating: IP65

Dimensions: 456 × 750 × 268.5 mm

Weight: 51.9 kg

Operating temperature: -40°C to +60°C

The Deye SUN-15K-SG05LP3-EU is an advanced hybrid inverter that delivers top-level energy efficiency, flexibility, and independence. It's a perfect solution for expanding existing systems or powering modern residential and commercial PV installations.