

Deye SUN-15K-SG01HP3-EU-AM2

Product code: F.Deye.3F.H.15K-SG01HP3-EU-AM2



Deye SUN-15K-SG01HP3-EU-AM2 – Versatile 15 kW Hybrid Inverter for Modern PV Installations

Deye SUN-15K-SG01HP3-EU-AM2 is a modern three-phase hybrid inverter designed for intelligent energy management in medium and large-scale photovoltaic installations. The device integrates grid operation, energy storage, and off-grid functionality, making it an ideal solution for users seeking energy independence and high efficiency.

With support for high-voltage lithium-ion batteries, compatibility with diesel generators, and parallel operation of up to 10 units, the Deye 15K inverter enables the creation of scalable and reliable PV systems.

Product variants

Index	Price
Deye SUN-15K-SG01HP3-EU-AM2 F.Deye.3F.H.15K-SG01HP3-EU-AM2	Product prices only visible after login. If you do not have an account, please register.

Product description

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Advantages of the Deye SUN-15K-SG01HP3-EU-AM2 Inverter

High charging and discharging efficiency

With a maximum charging/discharging current of 50 A, the inverter allows for fast and efficient energy storage and recovery from batteries. This translates into better utilization of solar power and greater energy independence.

Compatibility with diesel generators

The SUN-15K model supports energy storage from diesel generators, offering a reliable backup power solution. This is ideal for systems requiring dependable emergency power supply.

Parallel operation – up to 10 units

The inverter supports the parallel connection of up to 10 devices, both in on-grid and off-grid systems. This scalability is perfect for expanding an existing setup or building large solar installations.

High-voltage batteries – broader compatibility range

Supporting lithium-ion batteries with a voltage range of 160 to 700 V, the inverter ensures greater flexibility and improved energy efficiency across various battery types.

Retrofit-ready for existing PV installations

Thanks to its AC coupling capability, the inverter can easily be integrated into existing photovoltaic systems. This provides a smooth upgrade path from standard PV to hybrid without replacing the entire infrastructure.

Advanced battery charge/discharge scheduling

Deye allows configuration of up to 6 independent time slots for battery operation. This enables the system to optimize usage according to electricity tariffs or time of day, maximizing savings and efficiency.

Technical Specifications – Deye SUN-15K-SG01HP3-EU-AM2

Rated power: 15,000 W

Maximum PV input power: 22,000 W

MPPT: 2 trackers (2+2 strings)

Max. / Euro efficiency: 97.6% / 97.0%

PV voltage range: 150–850 V

Supported batteries: Li-ion, 160–700 V

Max. charging/discharging current: 50 A

Communication: RS485, CAN, WiFi, LAN, 4G, Bluetooth (optional)

Protection rating: IP65

Weight: 30.5 kg

Dimensions: 408 × 638 × 237 mm

Operating temperature range: -40°C to +60°C

Cooling method: Intelligent air cooling

Deye SUN-15K-SG01HP3-EU-AM2 is a reliable and flexible hybrid inverter for demanding users. Its high performance, advanced energy management, diesel generator compatibility, and expansion capabilities make it an excellent choice for both residential and commercial PV systems.