

# Deye SUN-8K-SG04LP3-EU

Product code: F.Deye.3F.H.SUN-8k-SG04LP3-EU



Manufacturer	DEYE
Inverter type	Hybrid
Inverter phases	3
Max. AC power	8000
MPPT	2
Ethernet	-
Compatible energy storage	Deye, Pylontech

The Deye SUN-8K-SG04LP3-EU hybrid inverter is a three-phase low-voltage (48V) inverter that enhances energy independence and optimizes energy flow direction between various sources and consumers. Its compact design and high power density offer a favorable DC/AC ratio of 1.3, resulting in investment savings. Additionally, the inverter supports three-phase unbalanced output, expanding its application possibilities in various scenarios.

## Product variants

Index	Price
<b>Deye SUN-8K-SG04LP3-EU</b> F.Deye.3F.H.SUN-8k-SG04LP3-EU	Product prices only visible after login. If you do not have an account, please register.

## Product description

The Deye SUN-8K-SG04LP3-EU hybrid inverter is a three-phase low-voltage (48V) inverter that enhances energy independence and optimizes energy flow direction between various sources and consumers. Its compact design and high power density offer a favorable DC/AC ratio of 1.3, resulting in investment savings. Additionally, the inverter supports three-phase unbalanced output, expanding its application possibilities in various scenarios.

Advantages of the Deye SUN-8K-SG04LP3-EU Three-Phase Hybrid Inverter:  
 Full unbalanced power for each phase, achieving maximum output power up to 50% of the nominal power.  
 Integration with both DC and AC to enhance existing solar systems.

Support for simultaneous operation of up to 16 units both on-grid and off-grid; capability to handle multiple batteries in parallel.

Maximum charge/discharge current of 240A.

48V low-voltage battery with transformer isolation.

6 battery charge/discharge periods.

Support for energy storage with a diesel generator.

Technical Specifications of the Deye SUN-10K-SG04LP3-EU Three-Phase Hybrid Inverter:

Battery Type: Lead-acid or lithium-ion

Battery Voltage Range (V): 40~60

Maximum Charging Current (A): 190

Maximum Discharging Current (A): 190

External Temperature Sensor: Yes

Charging Curve: 3 stages / equalization

Maximum DC Input Power (W): 10400

Nominal PV Input Voltage (V): 550 (160~800)

Start-up Voltage (V): 160

MPPT Range (V): 200-650

DC Voltage Range at Full Load (V): 350-650

PV Input Current (A): 13+13

Maximum PV ISC (A): 17+17

Number of MPPT / Strings per MPPT: 2/2+1

AC Output Data:

Nominal AC Output and UPS Power (W): 8000

Maximum AC Output Power (W): 8800

Nominal AC Output Current (A): 12.1

Maximum AC Current (A): 18.2

Maximum Continuous AC Pass-through (A): 45

Peak Power (Off-grid): 2 times the nominal power, 10 seconds

Power Factor: 0.8 leading to 0.8 lagging

Output Frequency and Voltage: 50/60Hz; 3L/N/PE 220/380, 230/400Vac

Grid Type: Three-phase

Maximum Efficiency: 97.60%

Output Overvoltage Protection: DC Type II / AC Type III

Operating Temperature Range (°C): -45~60°C, derating >45°C

Noise (dB): < 45 dB

Communication with BMS: RS485; CAN

Weight (kg): 33.6

Dimensions (mm): 422 W x 699.3 H x 279 D

Protection Level: IP65

Installation Style: Wall-mounted

Warranty: 5 years

The Deye SUN-8K-SG04LP3-EU inverter is a comprehensive solution for photovoltaic installations with energy storage systems, combining energy efficiency, configuration flexibility, and reliable emergency power supply.