

Deye SUN-5K-SG04LP3-EU

Product code: F.Deye.3F.H.SG04LP3-EU



Manufacturer	DEYE
Inverter type	Hybrid
Inverter phases	3
Max. AC power	5000
MPPT	2
Ethernet	-
Compatible energy storage	Deye, Pylontech

The Deye SUN-5K-SG04LP3-EU hybrid inverter is a three-phase low-voltage inverter (48V) that enhances energy independence and optimizes the direction of energy flow between various sources and energy receivers. Its compact design and high power density ensure that this series offers a favorable DC/AC ratio of 1.3, resulting in investment savings. Additionally, the inverter supports three-phase unbalanced output, which expands its application possibilities in various scenarios.

Product variants

Index	Price
Deye SUN-5K-SG04LP3-EU F.Deye.3F.H.SG04LP3-EU	Product prices only visible after login. If you do not have an account, please register.

Product description

The Deye SUN-5K-SG04LP3-EU hybrid inverter is a three-phase low-voltage inverter (48V) that enhances energy independence and optimizes the direction of energy flow between various sources and energy receivers. Its compact design and high power density ensure that this series offers a favorable DC/AC ratio of 1.3, resulting in investment savings. Additionally, the inverter supports three-phase unbalanced output, which expands its application possibilities in various scenarios.

Advantages of the Deye SUN-5K-SG04LP3-EU three-phase hybrid inverter:

Full unbalanced power for each phase, achieving maximum output power up to 50% of the rated power.
Ability to integrate with both DC and AC to enhance existing solar systems.
Supports simultaneous operation of up to 16 units both on-grid and off-grid; capability to manage multiple batteries in parallel.
Maximum charging/discharging current of 240 A.
Low-voltage 48 V battery with transformer isolation.
6 periods of battery charging/discharging.
Support for energy storage from diesel generators.
Technical specifications of the Deye SUN-5K-SG04LP3-EU three-phase hybrid inverter:
Battery type: Lead-acid or lithium-ion
Battery voltage range (V): 40~60
Maximum charging current (A): 120
Maximum discharging current (A): 120
External temperature sensor: Yes
Charging curve: 3 stages / Equalization
Maximum DC input power (W): 6500
Rated PV input voltage (V): 550 (160~800)
Start 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:
Rated AC output and UPS power (W): 5000
Maximum AC output power (W): 5500
Rated AC output current (A): 7.6
Maximum AC current (A): 11.4
Maximum continuous AC current (A): 45
Peak power (off-grid): 2 times the rated power, 10 S
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, >45°C derating
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 rating: IP65
Installation style: Wall-mounted
Warranty: 5 years