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Deye SUN-50K-SG01HP3-EU-BM4

Product code: F.Deye.3F.H.50K-SG01HP3-EU-BM4



Manufacturer	DEYE
Inverter type	Hybrid
Inverter phases	3
Max. AC power	50000
МРРТ	2
Ethernet	-
Compatible energy storage	Deye, Pylontech
Compatible optimizers	Tigo

The three-phase hybrid inverter Deye SUN-50K-SG01HP3-EU-BM4 is a modern energy management solution, ideal for both new installations and upgrades of existing PV systems. With the ability to connect to both DC and AC power and operate in on-grid and off-grid modes, the system offers maximum flexibility. It supports up to 16 units in parallel and multiple batteries, allowing for easy expansion. A high-voltage battery, charging/discharging current up to 100A, and 6 programmable operating periods enhance efficiency and control. Additionally, cooperation with a diesel generator is supported.

Product variants

Index	Price
	Product prices only visible after
Deye SUN-50K-SG01HP3-EU-BM4 F.Deye.3F.H.50K-SG01HP3-EU-BM4	login. If you do not have an account, please

Product description

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Key features of the Deye SUN-50K-SG01HP3-EU-BM4:

100% unbalanced output in each phase - flexibility and energy independence

Ability to connect to DC and AC power - ideal for upgrading PV

Up to 16 units operating in parallel – scalability in grid-tied and off-grid operation

Support for multiple batteries in parallel - increased capacity and safety

Maximum charging/discharging current: 100A - high efficiency

High-voltage battery - better performance and longer lifespan

6 charging/discharging periods - full control over energy management

Support for energy storage from a diesel generator - independence in all conditions

Technical data of Deye SUN-50K-SG01HP3-EU-BM4:

Battery:

Type: lithium-ion / lead-acid

Operating voltage: 200-700 V

Maximum charging/discharging current: 2 × 37 A

PV Input:

Maximum input power: 65,000 W

Number of MPPTs: 4

MPPT voltage range: 200-850 V

Maximum PV input current: $4 \times 36 A$

AC Output:

Nominal power: 50,000 W

Maximum output power: 55,000 W

Operating mode: on-grid and off-grid

Maximum AC output current: 100 A

Efficiency:

Maximum efficiency: 97.6%

MPPT tracking efficiency: 99.9%

General parameters:

Protection degree: IP65

Dimensions: $560.5 \times 837 \times 319 \text{ mm}$

Weight: 60 kg

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