

New Benchmark for Single-Phase Off-Grid Inverter
Deye Single-Phase Off-Grid Inverter
SUN-3.6/5/6K-OG01LP1-EU-AM2

- ✓ IP65
- ✓ 5-Year Warranty
- ✓ 135A Battery Current



New Benchmark for Off-Grid Inverter

SUN-3.6/5/6K-OG01LP1-EU-AM2



IP65 Protection Level
5-Year Quality Assurance

4ms

Ultra-Fast Switching



94.7%
Charging/Discharging Efficiency



Color Touch Screen



135A
Charge and Discharge



Up to 16 Units
in Parallel



Support
Diesel Generator



2x Rated Power
Peak Output
for 10 Seconds



Support
High-Power
PV Modules

Distinct Advantages Deye Off-Grid Inverters



Deye Off-Grid Inverter

SUN-3.6/5/6K-OG01LP1-EU-AM2

Rated Powers: 3.6kW, 5kW, 6kW

Charge/Discharge Current: 90A, 120A, 135A

AC Charge Power = PV Charge Power

2 MPPTs

Up to 1.6 times PV Oversizing

18A+18A PV Input

For Modules at Various Angles

For High-Power Modules

Max. 16 PCS in Parallel

Meet High-Power Needs

Switch Time in 4ms

UPS-Level Protection

Independent Cooling

Reduced Dust, Lifespan Extended

IP65 for Outdoor Use

5-Year Warranty, Extendable to 10 years

Durable for 5-10 years

Traditional Off-grid Inverter

Rated Powers: 3-6kW

Charge Current: 80A-100A (PV), 60-80A (AC)

AC Charge Power < PV Charge Power

1 or 2 MPPTs

1.1-1.3 times PV Oversizing

10A/13A PV Input

Simple Setups Only

Standard/Old Modules Only

3-6 PCS in Parallel, Unstable

No High-Power Support

10-20ms Switch Time

Critical Loads Failures

Direct-Blow Cooling

Dust Risks Circuit Issues

IP20/IP21 for Indoor Use

1-2 Years Warranty, Frequent Failures

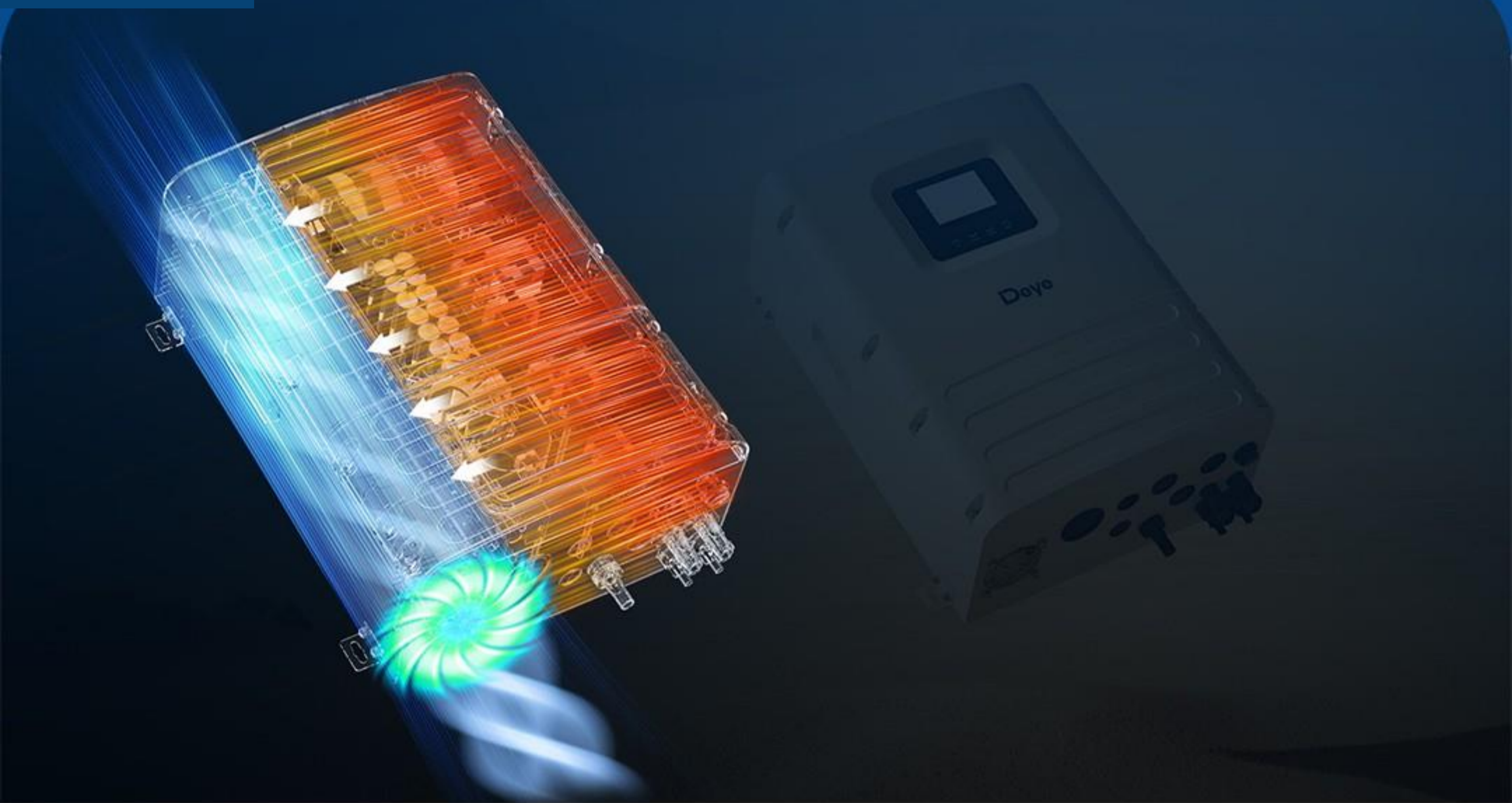
Short Lifespan



IP65 High-Level Waterproof and Dustproof

The Deye OG series off-grid inverters offer a significantly higher level of protection than the IP20 rating of traditional off-grid inverters. This is due to their adherence to higher design standards and superior craftsmanship, resulting in enhanced product quality and a longer service life.

Deye also extends a [five-year quality guarantee](#) for the OG series, ensuring a one-time investment that delivers long-term benefits.



Special Cooling Design

The independent cooling duct is completely isolated from the electrical system.

Compared to conventional direct-blow cooling structures, it helps to reduce dust intrusion into the inverter. This design prevents poor heat dissipation and unexpected failures caused by dust accumulation, especially in areas prone to frequent sandstorms and severe dust suspensions.

By effectively extending the product's service life, it ensures a more reliable and durable operation.



4ms Ultra-Fast Switching

Deye's OG series off-grid inverter can complete the switch from grid to battery power within 4ms. It ensures over 99% of electrical loads continue to operate stably and continuously, allowing devices such as computers, televisions, washing machines, and air conditioners to all operate normally and stably.

In contrast, traditional off-grid inverters have a switching time that ranges from 10 to 20ms. For electronic devices like computers and televisions, this can cause interruptions, restarts, and other issues. For appliances such as refrigerators, air conditioners, and washing machines, it can lead to unstable speeds in compressors, motors, and other equipment, causing mechanical shocks and inducing failures.

Rich Features

Best
Experience

Having the same multifunctional features as the widely popular Deye hybrid inverter.



Built-in Wi-Fi

There's no need to install or pair separate data loggers.

Color Touch Screen

Convenient and intuitive localized operations make it easy to view operational status and adjust settings.



Multifunctional

Supports up to 16 units in parallel expansion, diesel generator applications, and features smart load management.

this solution delivers a stable power usage experience while minimizing electricity costs.





Deye Off-Grid Inverter

SUN-3.6/5/6K-OG01LP1-EU-AM2

Rated AC Power: 3.6kW | 5kW | 6kW
 Peak AC Power: 2 times of rated power, 10s
 Rated AC Voltage: 220/230 0.85Un-1.1Un
 Grid Connection Form: L+N+PE

PV Input Power: 5.76kW | 8kW | 9.6kW
 PV Start-up Voltage: 125V
 Rated PV Input Voltage: 370V
 MPPT Voltage Range: 150V-425V
 No. of MPP Trackers/String: 2/1+1
 Max. Operating PV Input Current: 18A+18A
 Max. Input Short-Circuit Current: 27A+27A



Battery Type: Lead-acid or Lithium-ion
 Battery Voltage Range: 40-60V
 Max. Charging Current: 90A | 100A | 120A
 Max. Discharging Current: 90A | 100A | 120A



Operating Temperature Range: -40 to 60°C, >45°C Derating
 Permissible Ambient Humidity: 0-100%
 Permissible Altitude: <3000m
 Noise: <45dB
 Ingress Protection(IP) Rating: IP65
 Weight: 13.25kg
 Cabinet Size: 306mm × 427.5mm × 175.77mm