Deye Tesla Solar SA

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

Advantage ///

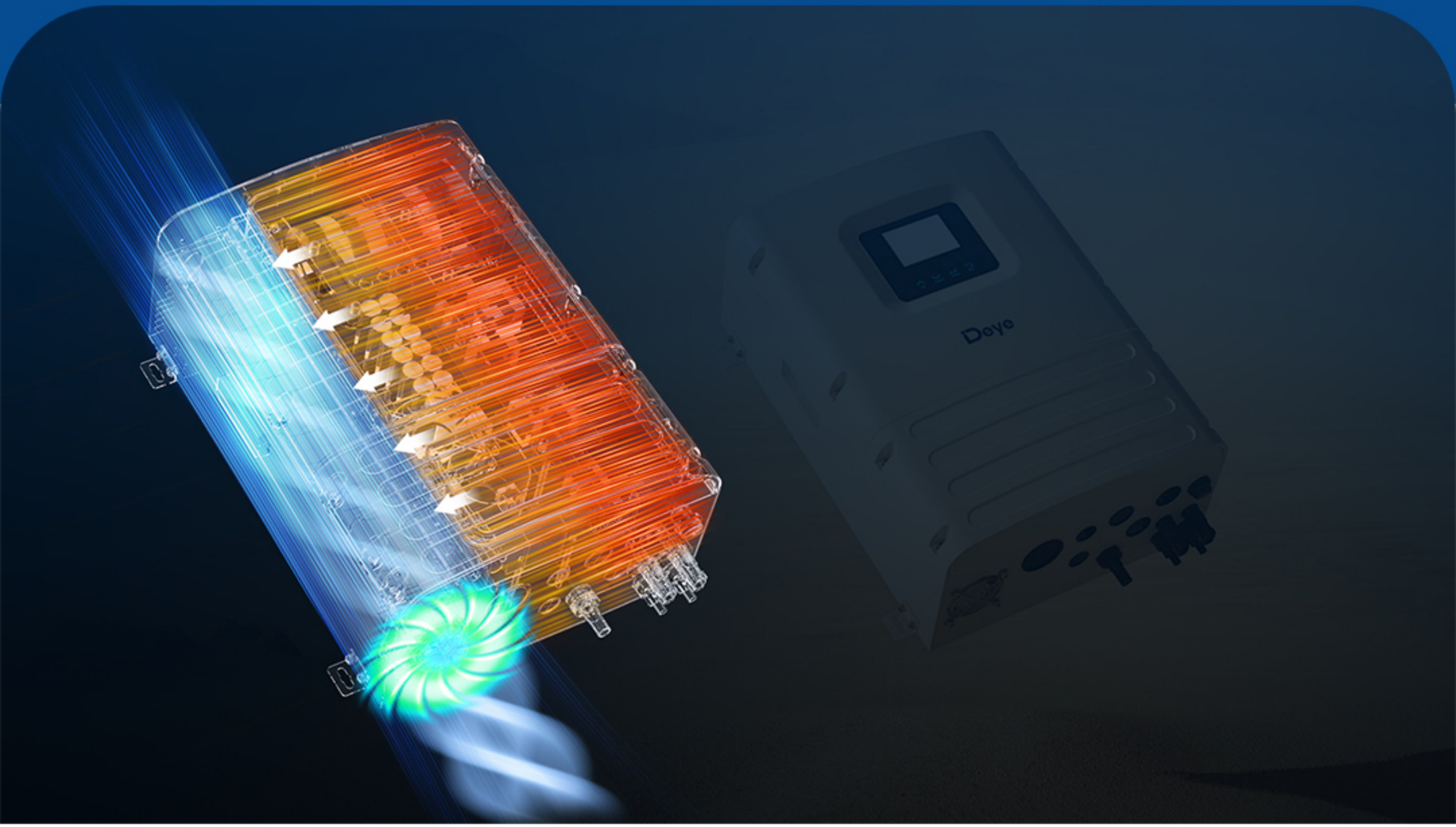
Deye Off-Grid Inverter SUN-3.6/5/6K-OG01LP1-EU-AM2	Traditional Off-grid Inverter
Rated Powers: 3.6kW, 5kW, 6kW	Rated Powers: 3-6kW
Charge/Discharge Current: 90A,120A ,135A	Charge Current: 80A-100A (PV), 60-80A (AC)
AC Charge Power = PV Charge Power	AC Charge Power < PV Charge Power
2 MPPTs	1 or 2 MPPTs
Up to 1.6 times PV Oversizing	1.1-1.3 times PV Oversizing
18A+18A PV Input	10A/13A PV Input
For Modules at Various Angles	Simple Setups Only
For High-Power Modules	Standard/Old Modules Only
Max.16 PCS in Parallel	3-6 PCS in Parallel, Unstable
Meet High-Power Needs	No High-Power Support
Switch Time in 4ms	10-20ms Switch Time
UPS-Level Protection	Critical Loads Failures
Independent Cooling	Direct-Blow Cooling
Reduced Dust, Lifespan Extended	Dust Risks Circuit Issues
IP65 for Outdoor Use	IP20/IP21 for Indoor Use
5-Year Warranty, Extendable to 10 years	1-2 Years Warranty, Frequent Failures
Durable for 5-10 years	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.



Tesla Solar SA



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

Deye Inverter www.deyeinverter.com