

Description

Deye 5KW Hybrid Inverter

Includes: Wi-Fi Dongle + BMS Communication Cable

Higher yields.

Improve self-consumption ratio up to 80%, reducing your electricity bill.

DC/AC ratio up to 1.3, completely suitable for double-side PV modular.

Two MPPT design, Max. efficiency of 97.6%.

User-friendly.

LCD Touch screen and buttons, easy operation.

Compatible with lithium-ion battery and lead acid battery.

Web browser and mobile App monitoring supported.

Reliable.

PV lightning protection, Anti-islanding protection, Leakage current protection etc.

Support store energy from DG when needed, ensure the system working within 7*24H.

IP65 protection degree, adapt to indoor and outdoor using.

Automatically switch from on-grid to off-grid mode within 5ms.

Zero exporting function, fast reaction within 200ms in zero export mode.

Smart.

Programmable charging and discharging schedule.

Both wind turbines and solar panels can be connected as DC input power.

Max. 16 units can be paralleled for higher system power.

Retrofitting of existing solar system to energy storage system.

Battery Input Data

Battery Type: Lead-acid or Li-Ion

Battery Voltage Range (V): 40-60V

Max. Charging Current (A): 120A

Max. Discharging Current (A): 120A

Charging curve: 3 Stages/Equalization

External Temperature Sensor: Optional

Charging Strategy for Lithium Battery: Self-adaption to BMS

PV String Input Data

Max. DC Input Power (W): 6500W.

PV input Voltage (V): 370V (100V-500V).

MPPT Range (V): 125-425V.

Start-up Voltage (V): 150V.

PV Input Current (A): 11A + 11A.

No. of MPPT Trackers: 2

No. of Strings Per MPPT Tracker: 1+1.

AC Output Data

Rated AC Output and UPS Power (W): 5000W

Max AC Output Power (W): 5500W

Peak Power(off-grid): 2 times of rated power, 10 S.
AC Output Rated Current(A): 21.7.4A
Max.AC Current(A): 25A
Max Continuous AC Pass-through(A): 35A.
Output Frequency and Voltage: 50Hz; 240Vac,
Grid Type: THD<3%(Linear load<1.5%).
Current Harmonic Distortion: THD<3% (Linear load<1.5%).

Efficiency

Max. Efficiency: 97.60%
Euro Efficiency: 96.50%
MPPT Efficiency: 99.90%

Protection

PV Arc Fault Detection: Integrated (Except European Type)
PV Input Lightning Protection: Integrated
Anti -islanding Protection: Integrated
PV String Input Reverse Polarity Protection: Integrated
Insulation Resistor Detection: Integrated
Residual Current Monitoring Unit: Integrated
Output over Current Protection: Integrated
Output Shorted Protection: Integrated
Output over Voltage Protection: Integrated

Certifications and Standards

Grid Regulation: UL1741, IEEE1547, RULE21, VDE0126, AS4777, NRS2017, G98, G99, IEC6168:
Safety Regulation: IEC62109-1, IEC62109-2
EMC: EN61000-6-1, EN61000-6-3, FCC 15 class B

General Data

Operating Temperature Range (C): -25–60 C , >45 C Derating
Cooling: Fan
Noise (dB): <30
Communication with BMS: RS485; CAN
Weight (kg): 20.5
Size (mm): 580 X 330 X 208mm
Protection Degree: IP65
Installation Style: Wall-mounted
Warranty: 5 years