

Deye 5kW Hybrid Inverter



- 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, IEC61683, IEC62116, IE61727
- 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

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