

Deye 50kW 3 Phase Hybrid Inverter



Battery Input Data

- Battery Type: Li-Ion
- Battery Voltage Range (V): 150-800V
- Max. Charging Current (A): 50A+50A
- Max. Discharging Current (A): 50A+50A
- Number of battery input: 2
- Charging Strategy for Lithium Battery: Self-adaption to BMS

PV String Input Data

- Max. DC Input Power (W): 65000W.
- Max. DC Input Voltage (V): 1000V
- Start-up Voltage (V): 150V
- MPPT Range (V): 200-850V.
- Full Load DC Voltage Range (V): 450-850
- Rated DC Input Voltage (V) 600
- PV Input Current (A): 36A+36A+36A+36A
- Max. PV ISC (A): 55A+55A+55A+55A
- No. of MPPT Trackers: 4
- No. of Strings Per MPPT Tracker: 2

AC Output Data

- Rated AC Output and UPS Power (W): 50000W
- Max AC Output Power (W): 55000W
- Peak Power(off-grid): 1.5 times of rated power, 10 S
- AC Output Rated Current(A): 75.8A
- Max.AC Current(A): 83.3A
- Max Continuous AC Pass-through(A): 150A.
- Output Frequency and Voltage: 50/60Hz;3L/N/PE 220/380Vac, 230/400Vac
- Grid Type: Three Phase
- DC injection current (mA): <0.5% 1n

Efficiency

- Max. Efficiency: 97.60%
- Euro Efficiency: 97.00%
- 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
- Surge protection: DC Type II / AC Type II

Certifications and Standards

- Grid Regulation: CEI 0-21, VDE-AR-N 4105, NRS 097, IEC 62116, IEC 61727, G99, G98, VDE 0126-1-1, RD 1699, C10-11
- Safety EMC/Standard: IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2
- EMC: EN61000-6-1, EN61000-6-3, FCC 15 class B

General Data

- Operating Temperature Range (C): - 40~60°C, >45°C Derating
- Cooling: Smart cooling
- Noise (dB): <45 dB
- Communication with BMS: RS485; CAN
- Weight (kg): 60
- Size (mm): 560.5W×837H×319D
- Protection Degree: IP65
- Installation Style: Wall-mounted
- Warranty: 5 years