

50A-1000A/h

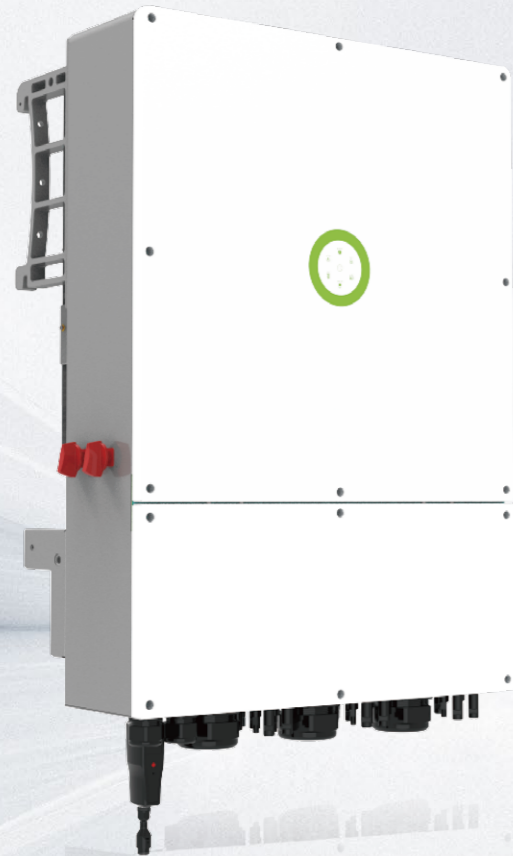
JH Series Hybrid Solar Inverter

hotel supermarket ice cream store

JH series three-phase high-voltage hybrid inverter, supports multi-unit parallel operation suitable for small and medium-sized industrial and commercial application scenarios.

This series includes multiple power levels of 29.9/50kW, capable of achieving UPS-level grid and off-grid switching, supports generator access, supports a maximum input current of 22.5A.

The AC side supports 1.1 times continuous AC overload, standard configuration includes AFCI protection, and type II surge protection for AC and DC ensures power consumption safety.



HV



Better Performance

- String current 22.5A, matching high power (210) PV panel
- 6 MPPT, support 200% oversizing
- Adopting C&I 280Ah cell, good performance and higher energy density



Ultimate Safety

- AFCI as standard to prevent fire
- AC and DC type II SPD
- IP66 protection level



Remarkable adaptability

- Parallel connection up to 10PCS, easy for expansion
- Accessing to DG(diesel generator), no need for additional equipment
- Supports UPS-level on- and off-grid switching

Technical parameters

| MODEL | JH-S-30K150A | JH-S-50K150A |
|--------------------------------------|--------------|---|
| DC Input | | |
| Max. PV Array Power [Wp]@STC | 59800 | 100000 |
| Max. DC Voltage [V] | | 1000 |
| MPPT Voltage Range [V] | | 180 ~ 850 |
| Rated DC Voltage [V] | | 600 |
| Start Voltage [V] | | 200 |
| Max.DC Input Current [A] | 4*45 | 6*45 |
| Max.DC Short Circuit Current [A] | 4*55 | 6*55 |
| Number of Strings per MPPT | 2 | 2 |
| Battery Parameters | | |
| Battery Type | | LiFePO4 |
| Battery Voltage Range[V] | | 180 ~ 800 |
| Max.Charging/Discharging Current [A] | | 150 |
| AC Output [On-grid] | | |
| Rated AC Power [W] | 29900 | 50000 |
| Max.Apparent Power[VA] | 29900 | 55000 |
| Rated Output Current[A]@230V | 43.3 | 72.5 |
| Max. Output Current [A]@230V | 43.3 | 79.8 |
| Rated AC Voltage/Range [V] | | 3+N+PE/ 3+PE, 380/ 400 |
| Rated Output Frequency/Range [Hz] | | 50,60/45 ~ 55,55 ~ 65 |
| Power Factor [cos φ] | | 0i - 1 - 0c |
| Total Harmonic Distortion [THDi] | | <3% |
| AC input [On-grid] | | |
| Rated AC Voltage [V] | | 3+N+PE,380/400 |
| Rated Output Frequency [Hz] | | 50,60 |
| Max. Input Current [A] | | 200 |
| AC Output [Back-up] | | |
| Max.Output Power [VA] | 29900 | 55000 |
| Peak Output Apparent Power [VA] | 29900 | 75000,5s |
| Rated AC Voltage [V] | | 3+N+PE,380/400 |
| Rated Output Frequency/Range [Hz] | | 50,60/45 ~ 55,55 ~ 65 |
| Output THDv (@ Liner Load) | | <3% |
| AC Input [Generator] | | |
| Max. Input Power [W] | | 138000 |
| Max. Input Current [A]@230V | | 200 |
| Rated Input Voltage [V] | | 3+N+PE, 380/400 |
| Rated Input Frequency/Range [Hz] | | 50,60/45 ~ 55,55 ~ 65 |
| Efficiency | | |
| Max. Efficiency | | ≥98.0% |
| Euro Efficiency | | 97.3% |
| Max. Battery to AC Efficiency | | 96.0% |
| Protection | | |
| PV Reverse Polarity Protection | | Integrated |
| Anti-islanding Protection | | Integrated |
| AC Overcurrent Protection | | Integrated |
| AC Short Circuit Protection | | Integrated |
| AC Overvoltage Protection | | Integrated |
| DC switch | | Integrated |
| DC Surge Protection | | II |
| AC Surge Protection | | II |
| AFCI | | Integrated |
| RSD | | Optional |
| General Parameters | | |
| Communication | | Wi-Fi/Ethernet/CAN/RS485 |
| Topology | | Transformerless |
| Operating Temperature Range | | -30°C to +60°C (45°C to 60°C with derating) |
| Cooling Method | | Smart Fan Cooling |
| Ambient Humidity | | 0-100% Non-condensing |
| Altitude | | 3000 |
| Ingress Protection | | IP66 |
| Dimensions [H*W*D] [mm] | | 630*630*290 |
| Weight [kg] | | 76 |
| Warranty [Year] | | 5/10 |
| Standard | | VDE4105, IEC61727/62116, VDE0126, AS4777.2, CEI 0 21, EN50549-1, G99, G100, C10-11, UNE217002, NRS097 NBR16149/NBR16150, IEC62109-1/-2, NBT32004-2018, EN61000-6-1, EN61000-6-2, EN61000-6-3, EN61000-6-4 |