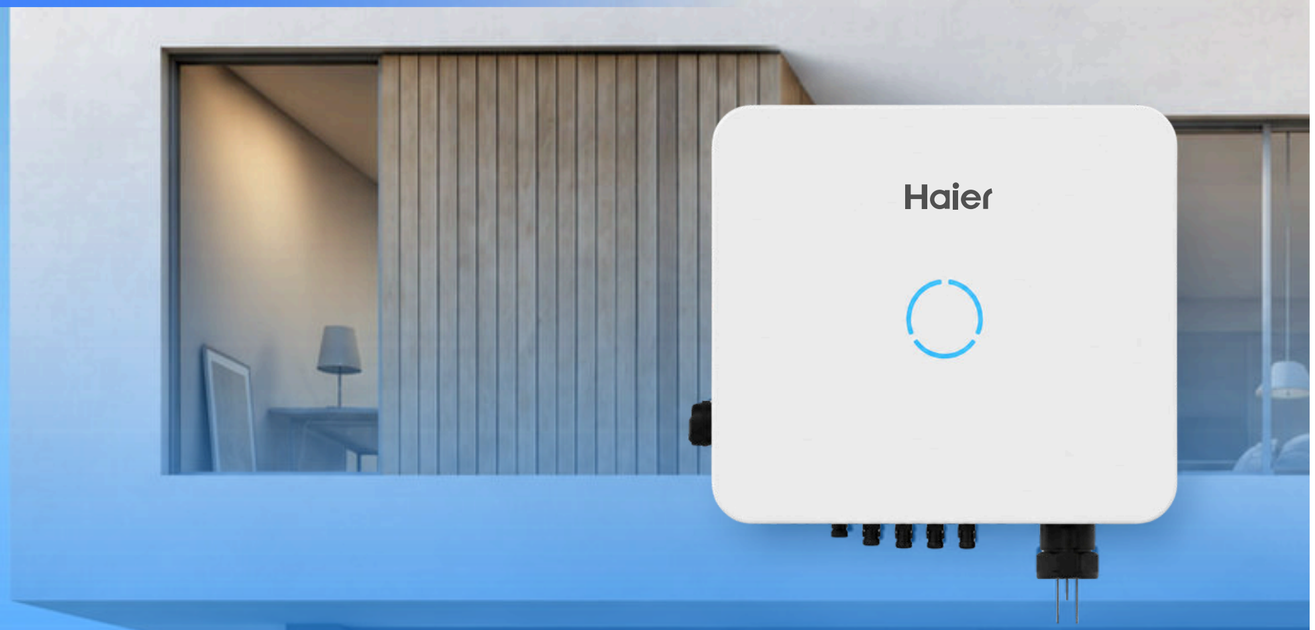
SBEON | Haier Energy

# PV String Inverter

HS3P-36/40/45/50kW




**SMART**
Real-time I-V curve analysis for optimal performance.

**EFFICIENT**
Max. 98.6% conversion efficiency for unparalleled energy savings.

**FLEXIBLE**
Compatible with a wide range of input voltage & current. Low starting voltage, reduce energy losses.

**QUIET**
Noise is less than 30dB, ensuring a quiet and comfortable environment.

**SAFE**
Maximum protection with string current detection, AFCI, and integrated SPD.

**CONNECTED**
Manage and monitor everything remotely with our app and web portal.

| | HS3P-36KW-3M | HS3P-36KW | HS3P-40KW | HS3P-45KW | HS3P-50KW |
|---|---|---|---|---|---|
| **Input (DC)** | | | | | |
| Max. input voltage (V) | 1100 | | | | |
| Max. input current per MPPT (V) | 40 / 40 / 40 | 40 / 40 / 40 / 20 | 40 / 40 / 40 / 20 | 40 / 40 / 40 / 40 | 40 / 40 / 40 / 40 |
| Max. short-circuit current (A) | 50 / 50 / 50 | 50 / 50 / 50 / 25 | 50 / 50 / 50 / 25 | 50 / 50 / 50 / 50 | 50 / 50 / 50 / 50 |
| Start-up voltage (V) | 160 | | | | |
| Grid- connected voltage (V) | 250 | | | | |
| MPPT operating voltage range [V] | 140-1000 | | | | |
| Rated input voltage (V) | 600 | | | | |
| Number of MPPTs | 3 | 4 | 4 | 4 | 4 |
| Max.Input string per MPPT | 2 / 2 / 2 | 2 / 2 / 1 / 1 | 2 / 2 / 2 / 2 | 2 / 2 / 2 / 2 | 2 / 2 / 2 / 2 |
| **Output (AC)** | | | | | |
| Rated output power (kW) | 36 | 36 | 40 | 45 | 50 |
| Max. apparent power (kVA) | 39.6 | 39.6 | 44.0 | 49.5 | 55.0 |
| Rated AC grid frequency (Hz) | 50 / 60 | | | | |
| Rated output voltage (V) | 3P / N / PE, 250 / 400 | | | | |
| Rated output current / Max. output current (A) | 52.2/80.2 | 52.2/60.2 | 58.0/66.9 | 65.2/75.2 | 72.4/83.6 |
| Adjustable power factor | 0.8 leading ... 0.8 lagging | | | | |
| Max. total harmonic dittection | < 3% (Rated power) | | | | |
| **Efficiency** | | | | | |
| Max. efficiency | 98.60% | 98.60% | 98.60% | 98.70% | 98.70% |
| European efficiency | 98.30% | 98.30% | 98.30% | 98.40% | 98.40% |
| **Protection** | | | | | |
| DC switch | Yes | | | | |
| Anti-Isbnding protection | Yes | | | | |
| AC over-current protection | Yes | | | | |
| DC reverse-gaverity protection | Yes | | | | |
| IV curve scan | Yes | | | | |
| DC surge protection | Type II | | | | |
| AC surge protection | Type II | | | | |
| Insulation resistance detection | Yes | | | | |
| AC leakage current detection | Yes | | | | |
| String current detection | Yes | | | | |
| AFCI | Optional | | | | |
| **Display & Communication** | | | | | |
| Display | LED | | | | |
| RS4B5 | Yes | | | | |
| Modbus | Yes | | | | |
| 4G | Optional | | | | |
| WiFi | Optional | | | | |
| Bluetooth | Yes | | | | |
| **General Parameter** | | | | | |
| Dimensions (W+H+D) (mm) | 600 * 430 * 230 | | | | |
| Weight (kg) | 30.0 | 30.0 | 30.0 | 32.0 | 32.0 |
| Operating temperature range | -30°C - +60°C * | | | | |
| Cooling | Smart air cooling | | | | |
| Noise | ≤45dB | ≤45dB | ≤45dB | ≤55dB | ≤55dB |
| Max. operating oritude | 4000m * | | | | |
| Relative hemivity | 0 – 100% | | | | |
| Protection level | IP66 | | | | |
| Self-consumption of night | <1W | | | | |
| Topology | Transformerless | | | | |
| Compliance | IEC 62109, VDE-AR-N 4105:2018, VDE-AR-N 4110:2018, IEC 61000-6-3, EN 50549-1/2, CEIO 16 2019, VDE 0126-1-1/A1 | | | | |