

SW 20/25/30KTH /HV- EU



Excellent Performance

Maximum efficiency of 98.4% and battery efficiency of 98.0%

Supporting continuous overload capacity of 110% and unbalanced output

Maximum battery charge/discharge current of 2*75A

High Flexibility

Large MPPT current, compatible with

high-power solar panels

Advanced parallel function

Safety & Reliability

Key components from international renowned brands

IP66 protection rating, ensuring adaptability to complex outdoor environment

Multiple built-in protections, with optional AFCI 2.0

Intelligent Maintenance

Quick commission via mobile app, 24/7 remote monitoring, configuration and upgrade

Advanced energy management mechanism, with multiple built-in working modes and flexible customized settings

| Model | SW 20KTH/HV-EU | SW 25KTH/HV-EU | SW 30KTH/HV-EU |
|--------------------------------------|--|--|-------------------|
| Efficiency | | | |
| Max. Efficiency (PV to AC) | 98.2% | 98.4% | 98.4% |
| Eur. Efficiency (PV to AC) | | 97.9% | |
| Max. Efficiency (BAT to AC) | | 98.0% | |
| Input (PV) | | | |
| Max. PV Usable Power | 30,000W | 45,000W | 45,000W |
| Max. PV Voltage | | 1,000V | |
| Start-up Voltage | | 150V | |
| MPPT Operating Voltage Range | | 160V-950V | |
| Max. Input Current per MPPT | 32A/32A | 32A/32A/32A | 32A/32A/32A |
| Max. Short Circuit Current per MPPT | 40A/40A | 40A/40A/40A | 40A/40A/40A |
| String per MPPT | 2/2 | 2/2/2 | 2/2/2 |
| Nos. of MPPT | 2 | 3 | 3 |
| Input/Output (BAT) | | | |
| Battery Type | | Lithium-ion/Lead-acid | |
| Battery Voltage Range at Rated Power | 380V-800V | 190V-800V | 230V-800V |
| Battery Voltage Range | | 120V-800V | |
| Max. Charge/Discharge Current | 60A/60A | 2*75A/2*75A | 2*75A/2*75A |
| Max. Charge/Discharge Power | 30,000W/24,000W | 45,000W/30,000W | 45,000W/36,000W |
| Output (Grid) | | | |
| Nominal AC Output Power | 20,000W | 25,000W | 30,000W |
| Max. AC Output Apparent Power | 22,000VA | 27,500VA | 33,000VA |
| Max. AC Output Power (PF=1) | 22,000W | 27,500W | 33,000W |
| Max. AC Output Current | 3*33.3A | 3*41.7A | 3*50A |
| Max. Single Phase Power | 10,000VA | 11,000VA | 11,000VA |
| Max. Input Power | 40,000VA | 45,000VA | 45,000VA |
| Max. Input Current | 3*60.6A | 3*68.2A | 3*68.2A |
| Nominal Grid Voltage | | 380V/400V/415V, 3W+N+PE | |
| Grid Voltage Range | | 277V-520V (Adjustable) | |
| Nominal Grid Frequency | | 50Hz/60Hz | |
| Grid Frequency Range | | 45Hz-55Hz/55Hz-65Hz (Adjustable) | |
| Power Factor | | 0.99@Rated power (Adjustable 0.8 LD - 0.8 LG) | |
| THDI | | <3%@Rated Power | |
| Output (Back up) | | | |
| Nominal Output Power | 20,000W | 25,000W | 30,000W |
| Nominal Output Current | 3*30.3A | 3*37.9A | 3*45.5A |
| Peak Output Apparent Power (5min) | 24,000VA | 30,000VA | 36,000VA |
| Peak Output Apparent Power(10s) | 30,000VA | 37,500VA | 45,000VA |
| Nominal Output Voltage | | 380V/400V/415V, 3W+N+PE | |
| Nominal Output Frequency | | 50Hz/60Hz | |
| Transfer Time | | <10ms (Typical) | |
| THDV | | <3%@100% R Load | |
| Protection | | Class I | |
| Protection Category | | Class I | |
| DC Switch | | Yes | |
| Anti-islanding Protection | | Yes | |
| AC Overcurrent Protection | | Yes | |
| DC/AC Overvoltage Protection | | DC Type II, AC Type III | |
| AC Short Circuit Protection | | Yes | |
| DC Reverse Protection | | Yes | |
| Surge Arrester | | DC Type II, AC Type IIIS | |
| Insulation Resistance Detection | | Yes | |
| Leakage Current Protection | | Yes | |
| AFCI 2.0 | | Optional | |
| General | | | |
| Max. Operation Altitude | | 4000m (>2000m derating) | |
| Ingress Protection Degree | | IP66 | |
| Operating Temperature Range | | -25 C ~60 C (>45 C derating) | |
| Relative Humidity | | 0~100% | |
| Cooling Method | Natural Cooling | Smart Fan Cooling | Smart Fan Cooling |
| Mounting | | Wall bracket | |
| Dimensions (W*H*D) | | 660mm*596mm*235mm | |
| Weight | 45Kg | 55Kg | 55Kg |
| PV Connection Way | | MC4/H4 | |
| HMI & COM | | | |
| Display | | Bluetooth & APP+LED, LCD (Optional) | |
| Communication Interface | | RS485/CAN (for BMS), RS485, DRM/RS485 (for Meter), Optional: Wi-Fi/LAN, 3*DO, 2*DI | |
| Certification | | | |
| Safety | | IEC 62109-1&2 | |
| EMC | | IEC/EN 61000 | |
| Grid Code | VDE 4105, EN 50549-1, CEI 0-21, NRS 097-2-1, RD 1699/661/647/413, UNE 217002, AS 4777.2, C10/11, IEC 61727/62116 | | |
| Warranty | | 5 Years/10 Years (Optional) | |

Remarks: ① For single battery port connected, the maximum charge power is 25,500W. When two ports are used, the power can reach 45,000W.
 .The range of output voltage and frequency may vary depending on different grid codes.
 .Specifications are subject to change without advanced notice.