# H2 HV Split Phase Hybrid Inverter

It matches North America high voltage market, operating simply, more safety and reliable, support 16A PV input current, AC coupling and parallel, integrated AFCI and RSD protection, attach up to 3*4 battery modules, up to 87.6kWh.

- Up to 4 MPPTs (3 for 5/7.6kW model and 4 for 8.6/10/12kW model)
- 16A PV input current to support ultra-high power PV modules
- Fast battery charging with up to 50A battery charging current
- 120/240V split-phase output, without the need of auto-transformer
- Peak power capability of 1.5 times rated power to better handle motor type loads
- Seamless transition to battery power when grid is down

US version

H2-5K-S3-US | H2-7.6K-S3-US | H2-8.6K-S4-US
H2-10K-S4-US | H2-12K-S4-US

| MODEL | H2-5K-S3-US | H2-7.6K-S3-US | H2-8.6K-S4-US | H2-10K-S4-US | H2-12K-S4-US |
|---|---|---|---|---|---|
| **PV String Input Data** | | | | | |
| Max. PV Array Power [Wp]@STC | 7500 | 11400 | 12900 | 15000 | 18000 |
| Max. DC Voltage [V] | 600 | | | | |
| MPPT Voltage Range [V] | 90-550 | | | | |
| Nominal DC Voltage [V] | 360 | | | | |
| Start Voltage [V] | 100 | | | | |
| Min. DC Voltage [V] | 80 | | | | |
| Max. DC Input Current [A] | 16/16/16 | | 16/16/16/16 | | |
| Max. DC Short Current [A] | 19.2/19.2/19.2 | | 19.2/19.2/19.2/19.2 | | |
| Number of MPPT | 3 | | 4 | | |
| PV Strings per MPPT | 1/1/1 | | 1/1/1/1 | | |
| PV Switch | Integrated | | | | |
| **Battery Input Data** | | | | | |
| Battery Type | Lithium ion battery | | | | |
| Battery Voltage Range [V] | 85-450 | | | | |
| Max. Charging/Discharging Current [A] | 50 | | | | |
| **AC Output Data (On-grid)** | | | | | |
| AC Nominal Power [W]@208Vac | 4330 | 6580 | 7450 | 8600 | 10400 |
| AC Nominal Power [W]@240Vac | 5000 | 7600 | 8600 | 10000 | 12000 |
| Rated AC Current [A]@240Vac | 20.8 | 31.7 | 35.8 | 41.7 | 50.0 |
| Nominal AC Voltage/ Range [V] | L1/L2/N/PE，208V/240V；183V~229V/211V~264V | | | | |
| Grid Frequency/ Range [Hz] | 60 | | | | |
| Power Factor [cos ϕ] | 0.8 leading~0.8 lagging | | | | |
| Total Harmonic Distortion [THDi] | < 3% (at nominal power) | | | | |
| **AC Output [Back-up Mode]** | | | | | |
| AC Nominal Power [W] | 5000 | 7600 | 8600 | 9600 | 12000 |
| Surge AC Power [VA] | 7500,10s | 11400,10s | 12900,10s | 14400,10s | 18000,10s |
| Rated Output Voltage [V] | 240 / 120 | | | | |
| Rated Output Frequency [Hz] | 60 | | | | |
| **Efficiency** | | | | | |
| Max. Efficiency | 97.6% | | | | |
| CEC Efficiency | 97.0% | | | | |
| **Protection** | | | | | |
| AC Short-circuit Protection | Integrated | | | | |
| Overload Protection | Integrated | | | | |
| DC Overvoltage/ Undervoltage Protection | Integrated | | | | |
| AC Overvoltage/ Undervoltage Protection | Integrated | | | | |
| AC Overfrequency/ Underfrequency Protection | Integrated | | | | |
| Over Temperature Protection | Integrated | | | | |
| Anti-islanding Protection | Integrated | | | | |
| AC Surge Protection | II | | | | |
| DC Surge Protection | II | | | | |
| AFCI Protection | Integrated | | | | |
| **Interface** | | | | | |
| Human Machine Interface | LED/APP (via Bluetooth) | | | | |
| BMS Communication | RS485/CAN | | | | |
| Communication for Monitoring | Wi-Fi/Ethernet/4G(Optional) | | | | |
| **General Data** | | | | | |
| Topology | Transformerless | | | | |
| Consumption at Standby [W] | < 10 | | | | |
| Operating Temperature Range | -40°F to 140°F (-40°C to +60°C), 113°F to 140°F with derating (45°C to 60°C with derating) | | | | |
| Cooling Method | Natural Convection | | | | |
| Ambient Humidity | 0% ~ 95% Non-condensing | | | | |
| Maximum Elevation | 4000m (13123ft), derate over 3000m (9842ft) | | | | |
| Noise Level @1m [dBA] | <30 | | | | |
| Ingress Protection | NEMA 4x (IP65) | | | | |
| Mounting | Wall mounting | | | | |
| Dimensions [H*W*D] [inch] | 27.2*19.3*7.8 | | | | |
| Weight [kg] | 32 (71 lbs) | | | | |
| Warranty [years] | 10 | | | | |
| Safety/EMC Standard | UL 1741 CRD, IEEE 1547, UL 1699B, UL 1998, UL 9540, CAN/CSA C22.2.107.1-1, FCC, Part 15 Class B, SRD-UL1741 | | | | |