



H2 SERIES

SINGLE PHASE INVERTER



H2-5K-S3 | H2-6K-S3 | H2-7K-S3
H2-8K-S3 | H2-10K-S3



Easy setting of smart working modes

AFCI AFCI (optional)

16A DC 16A/ string matched with ultra high PV modules



Battery fast charging/ discharging supported

150% 150% DC oversizing

UPS With UPS function switch time $\leq 10\text{ms}$



| MODEL | H2-5K-S3 | H2-6K-S3 | H2-7K-S3 | H2-8K-S3 | H2-10K-S3 |
|--|---|-----------|-----------|-----------|------------|
| DC Input | | | | | |
| Max. PV Array Power [Wp]@STC | 7500 | 9000 | 10500 | 12000 | 15000 |
| Max. DC Voltage [V] | 600 | | | | |
| MPPT Voltage Range [V] | 90~550 | | | | |
| Rated DC Voltage [V] | 360 | | | | |
| Start Voltage [V] | 100 | | | | |
| Max.DC Input Current [A] | 16/16/16 | | | | |
| Max.DC Short Circuit Current [A] | 19.2/19.2/19.2 | | | | |
| No. of MPPT | 3 | | | | |
| Battery Parameters | | | | | |
| Battery Type | LiFeP04 | | | | |
| Battery Voltage Range[V] | 85~450 | | | | |
| Max.Charging/Discharging Current [A] | 50/50 | | | | |
| AC Output [On-grid] | | | | | |
| Rated AC Power [W] | 4999 | 6000 | 7000 | 8000 | 10000 |
| Rated Apparent Power[VA] | 4999 | 6000 | 7000 | 8000 | 10000 |
| Max.Apparent Power [VA] | 4999 | 6600 | 7700 | 8800 | 10000 |
| Rated/Max. AC Current Output to Utility Grid [A] | 21.7 | 30.0 | 35.0 | 40.0 | 45.5 |
| Current Inrush[A] | 150.0 | | | | |
| Max. AC Fault Current[A] | 120.0 | | | | |
| Max. AC Over Current Protection[A] | 63.0 | 75.0 | 88.0 | 100.0 | 100 |
| Rated AC Voltage/Range [V] | L+N+PE, 220, 230, 240/180~280 | | | | |
| Rated Output Frequency/Range [Hz] | 50, 60/45~55, 55~65 | | | | |
| Power Factor [cos φ] | 0.8 leading~0.8 lagging | | | | |
| Total Harmonic Distortion [THDi] | <3% | | | | |
| AC Input [On-grid] | | | | | |
| Rated AC Voltage/Range [V] | L+N+PE, 220, 230, 240/180~280 | | | | |
| Rated Input Frequency [Hz] | 50, 60 | | | | |
| Max. AC Current from Utility Grid [A] | 43.5 | 52.2 | 60.9 | 69.9 | 69.9 |
| AC Output [Back-up] | | | | | |
| Max.Output Power [VA] | 4999 | 6000 | 7000 | 8000 | 10000 |
| Max. Output Current [A] | 22.7 | 27.3 | 31.8 | 36.4 | 45.5 |
| Peak Output Apparent Power [VA] | 6000, 60s | 7200, 60s | 8400, 60s | 9600, 60s | 12000, 60s |
| Rated AC Voltage/Range [V] | L+N+PE, 220, 230, 240/180~280 | | | | |
| Rated Output Frequency/Range [Hz] | 50, 60/45~55, 55~65 | | | | |
| Output THDv (@ Linear Load) | <3% | | | | |
| Efficiency | | | | | |
| Max. Efficiency | 97.6% | | | | |
| Euro Efficiency | 97.0% | | | | |
| Protection | | | | | |
| Battery Input Reverse Polarity Protection | Integrated | | | | |
| Over load Protection | Integrated | | | | |
| AC Short Circuit Current Protection | Integrated | | | | |
| DC Surge Protection | Integrated | | | | |
| AC Surge Protection | Integrated | | | | |
| Anti-islanding Protection | Integrated | | | | |
| AFCI Protection | Optional | | | | |
| RSD Protection | Optional | | | | |
| Interface | | | | | |
| PV Connection | MC4/H4 | | | | |
| AC Connection | Plug-in connector | | | | |
| Battery Connection | Quick connector | | | | |
| Display | LED+APP | | | | |
| Communication | Wi-Fi/Ethernet/4G(Optional) | | | | |
| General Parameters | | | | | |
| Topology | Non-isolated | | | | |
| Operating Temperature Range | -40°C to +60°C (45°C to 60°C with derating) | | | | |
| Cooling Method | Natural Convection | | | | |
| Ambient Humidity | 0-100% Non-condensing | | | | |
| Altitude | 4000m (>3000m Power Derating) | | | | |
| Noise [dBA] | <35 | | | | |
| Ingress Protection | IP65 | | | | |
| Dimensions [H*W*D] [mm] | 430.5*549*223 | | | | |
| Weight [kg] | 26 | | | | |
| Warranty [Year] | 5/10/15/20 | | | | |
| Standard | CEI 0-21, VDE4105-AR-N, VDE0126-1-1, EN50438, G98, G99, EN50549, AS4777.2, IEC62109-1&-2, IEC62040-1, EN61000-6-1/2/3/4 | | | | |