



# H1

SERIES  
SINGLE PHASE



H1-3K-S2-15 | H1-3.6K-S2-15  
H1-4K-S2-15 | H1-4.6K-S2-15  
H1-5K-S2-15 | H1-6K-S2-15-IE | H1-6K-S2-15

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



Fanless design  
quiet and comfortable



Zero export function  
supported

**100A** Max. 100A  
charge current



24H energy monitoring  
and management



Easy setting of  
smart working modes



| MODEL                                     | H1-3K-S2-15  | H1-3.6K-S2-15 | H1-4K-S2-15 | H1-4.6K-S2-15 | H1-5K-S2-15* | H1-6K-S2-15-IE | H1-6K-S2-15 |
|---|--|---------------|-------------|---------------|--------------|----------------|-------------|
| <b>DC Input</b>                           |  |               |             |               |              |                |             |
| Max. PV Array Power [Wp]@STC              | 4500   | 5400          | 6000        | 6900          | 7500         | 9000           | 9000        |
| Max. DC Voltage [V]                       | 600  |               |             |               |              |                |             |
| MPPT Voltage Range [V]                    | 90 ~ 550   |               |             |               |              |                |             |
| Rated DC Voltage [V]                      | 360  |               |             |               |              |                |             |
| Start Voltage [V]                         | 120  |               |             |               |              |                |             |
| Max. DC Input Current [A]                 | 15/15  |               |             |               |              |                |             |
| Max. DC Short Circuit Current [A]         | 18/18  |               |             |               |              |                |             |
| No. of MPPT                               | 2  |               |             |               |              |                |             |
| <b>Battery Parameters</b>                 |  |               |             |               |              |                |             |
| Battery Type                              | LiFePO4  |               |             |               |              |                |             |
| Battery Voltage/Voltage Range [V]         | 51.2/42 ~ 58.5   |               |             |               |              |                |             |
| Max. Charging/Discharging Current [A]     | 60/60  |               |             | 100/100       |              |                |             |
| <b>AC Output [On-grid]</b>                |  |               |             |               |              |                |             |
| Rated AC Power [W]                        | 3000   | 3680          | 4000        | 4600          | 5000         | 5500           | 6000        |
| Max. Apparent Power [VA]                  | 3000   | 3680          | 4000        | 4600          | 5000         | 5500           | 6000        |
| Rated Output Current [A]@230Vac           | 13.1   | 16.0          | 17.4        | 20.0          | 21.7         | 25.0           | 26.1        |
| Max. Output Current [A]                   | 13.6   | 16.7          | 18.2        | 20.9          | 22.7         | 25.0           | 27.3        |
| 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%  |               |             |               |              |                |             |
| <b>AC Input [On-grid]</b>                 |  |               |             |               |              |                |             |
| Rated AC Voltage/Range [V]                | L+N+PE, 220,230,240/180 ~ 280  |               |             |               |              |                |             |
| Rated Input Frequency [Hz]                | 50,60  |               |             |               |              |                |             |
| Max. Input Current [A]@230Vac             | 13.1   | 16.0          | 17.4        | 20.0          | 21.7         | 26.1           | 26.1        |
| <b>AC Output [Back-up]</b>                |  |               |             |               |              |                |             |
| Max. Output Power [VA]                    | 3000   |               |             | 4600          | 5000         |                |             |
| Max. Output Current [A]                   | 13.6   |               |             | 20.9          | 22.7         |                |             |
| Peak Output Apparent Power [VA]           | 3600, 10s  |               |             | 5500, 10s     | 6000, 10s    |                |             |
| 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%  |               |             |               |              |                |             |
| <b>Efficiency</b>                         |  |               |             |               |              |                |             |
| Max. Efficiency                           | 97.6%  |               |             |               |              |                |             |
| Euro Efficiency                           | 97.0%  |               |             |               |              |                |             |
| <b>Protection</b>                         |  |               |             |               |              |                |             |
| 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   |               |             |               |              |                |             |
| <b>Interface</b>                          |  |               |             |               |              |                |             |
| PV Connection                             | MC4/H4   |               |             |               |              |                |             |
| AC Connection                             | Terminal block   |               |             |               |              |                |             |
| Battery Connection                        | Quick connector  |               |             |               |              |                |             |
| Display                                   | LCD+APP  |               |             |               |              |                |             |
| Communication                             | Wifi/Ethernet/4G (optional)  |               |             |               |              |                |             |
| <b>General Parameters</b>                 |  |               |             |               |              |                |             |
| Operating Temperature Range               | -25°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]                               | <29  |               |             |               |              |                |             |
| Ingress Protection                        | IP65   |               |             |               |              |                |             |
| Dimensions [H*W*D] [mm]                   | 470*470*190  |               |             |               |              |                |             |
| Weight [kg]                               | 23   |               |             |               |              |                |             |
| Warranty [Year]                           | 5/10/15/20   |               |             |               |              |                |             |
| Standard                                  | EN 62109-1/2, EN 61000-6-2/4, EN 50438, EN 50549, C10/11, IEC 62116, IEC 61727, RD 1699, RD 413, UNE 206006, UNE 206007, NTS, CEI 0-16, CEI O-021, AS 4777.2, NBR 16149, NBR 16150 VDE-AR-N 4105, VDE 0126-1-1 |               |             |               |              |                |             |

Remarks: \*Power 4600W/4600VA for VDE-AR-N4105, 5000W/5000VA for other countries.  
Current 20.9Aac for VDE-AR-N 4105, 22.7Aac for other countries.  
20.9Aac/4600W/4600VA for VDE-AR-N4105 bypass mode.  
22.7Aac/5000W/5000VA for other countries or VDE-AR-N4105 stand-alone mode.