

# 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

**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 |
|--|--|---------------|-------------|---------------|--------------|-------------|
| Input (DC)                                 |  |               |             |               |              |             |
| Max. PV Array Power [Wp]@STC               | 4500   | 5400          | 6000        | 6900          | 7500         | 9000        |
| Max. DC Voltage [V]                        | 600  |               |             |               |              |             |
| MPPT Voltage Range [V]                     | 90~550   |               |             |               |              |             |
| Nominal DC Voltage[V]                      | 360  |               |             |               |              |             |
| Start Voltage [V]                          | 120  |               |             |               |              |             |
| Min. DC Voltage [V]                        | 80   |               |             |               |              |             |
| Max.DC Input Current [A]                   | 15/15  |               |             |               |              |             |
| Max.DC Short Circuit Current [A]           | 18/18  |               |             |               |              |             |
| No. of MPPT                                | 2  |               |             |               |              |             |
| DC Switch                                  | Integrated   |               |             |               |              |             |
| Battery Data                               |  |               |             |               |              |             |
| Battery Type                               | LiFePO4  |               |             |               |              |             |
| Battery Input Voltage/Range of Voltage [V] | 51.2/42~58.4   |               |             |               |              |             |
| Max./Rated Charge Current [A]              | 60/60  |               |             | 100/100       |              |             |
| Charging Mode Control                      | 3-stages   |               |             |               |              |             |
| Grid Data [On grid Mode]                   |  |               |             |               |              |             |
| Rated Output Power[W]                      | 3000   | 3680          | 4000        | 4600          | 5000         | 6000        |
| Max. Output Power[VA]                      | 3000   | 3680          | 4000        | 4600          | 5000         | 6000        |
| Rated Output Current [A]                   | 13.1   | 16.0          | 17.4        | 20.0          | 21.7         | 26.1        |
| Max. Output Current [A]                    | 13.6   | 16.7          | 18.2        | 20.9          | 22.7         | 27.3        |
| Rated AC Voltage/Range [V]                 | 220V, 230V, 240V / 180V~280V   |               |             |               |              |             |
| Rated Output Frequency/Range [Hz]          | 50 / 60 ± 5  |               |             |               |              |             |
| Power Factor [cos φ]                       | 0.9 leading~0.9 lagging  |               |             |               |              |             |
| Total Harmonic Distortion [THDi]           | <3%  |               |             |               |              |             |
| Feed-in                                    | L+N+PE   |               |             |               |              |             |
| AC Output Data [Back up Mode]              |  |               |             |               |              |             |
| Max. Output Power [VA]                     | 3000   |               |             | 4600          | 5000         |             |
| Output Voltage [V]                         | 220/230/240  |               |             |               |              |             |
| Output Frequency[Hz]                       | 50/60  |               |             |               |              |             |
| Total Harmonic Distortion of Voltage       | <3%  |               |             |               |              |             |
| Peak Output Apparent Power [VA]            | 3600, 10sec  |               |             | 5500, 10sec   | 6000, 10sec  |             |
| Efficiency                                 |  |               |             |               |              |             |
| Max. Efficiency                            | 97.6%  |               |             |               |              |             |
| Euro Efficiency                            | 97.0%  |               |             |               |              |             |
| Max. Battery to Load Efficiency            | 94.6%  |               |             |               |              |             |
| Protection                                 |  |               |             |               |              |             |
| AC Short Circuit Protection                | Integrated   |               |             |               |              |             |
| Overload Protection                        | Integrated   |               |             |               |              |             |
| DC Overvoltage/Undervoltage                | Integrated   |               |             |               |              |             |
| AC Overvoltage/Undervoltage                | Integrated   |               |             |               |              |             |
| AC Overfrequency/Underfrequency            | Integrated   |               |             |               |              |             |
| Over Thermal Protection                    | Integrated   |               |             |               |              |             |
| Anti-islanding protection                  | Integrated   |               |             |               |              |             |
| Peak-to-trough Period Setting              | Integrated   |               |             |               |              |             |
| Interface                                  |  |               |             |               |              |             |
| PV Connection Type                         | MC4  |               |             |               |              |             |
| Battery Connection Type                    | Terminal Block   |               |             |               |              |             |
| AC Connection Type                         | Terminal Block   |               |             |               |              |             |
| Display                                    | LCD  |               |             |               |              |             |
| Communication port                         | RS485*2& RS232&DRM*2 (Integrated)  |               |             |               |              |             |
| Communication Mode                         | WiFi/GPRS/Ethernet (Optional)  |               |             |               |              |             |
| General Data                               |  |               |             |               |              |             |
| Topology                                   | Transformerless  |               |             |               |              |             |
| Ingress Protection                         | IP65   |               |             |               |              |             |
| Operating Temperature Range                | -25°C to +60°C (45°C to 60°C with derating)  |               |             |               |              |             |
| Ambient Humidity                           | 0~100% No Condensing   |               |             |               |              |             |
| Altitude                                   | 4000m (>3000m Power Derating)  |               |             |               |              |             |
| Noise [dBA]                                | <29  |               |             |               |              |             |
| Cooling Method                             | Natural Convection   |               |             |               |              |             |
| Dimensions [H*W*D] [mm]                    | 470*470*190  |               |             |               |              |             |
| Weight [kg]                                | 23   |               |             |               |              |             |
| Warranty [Year]                            | 5  |               |             |               |              |             |
| Applicable Standard                        | IEC621091/2, IEC61000-6-1/2/3/4, EN50438, EN50549, C10/11, IEC62116, IEC61727, RD1699, UNE 206006, UNE 206007, CEI0-21, AS4777. 2, CQC NB/T 32004, VDE-AR-N 4105 |               |             |               |              |             |

**Note:** \* Power 4600W/4600VA for VDE-AR-N4105, 5000W/5000VA for other  
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.