



# 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.