



# H1 SINGLE PHASE SERIES

H1-3K/3.6K/4K/4.6K/5K/6K-S2; H1-4.6K/5K/6K-LS2



With UPS function  
switch time < 10ms



Zero export function  
supported



24H energy monitoring  
and management



Easy settings of  
smart working modes



Max. 100A  
charge current



Fanless design  
quiet and comfortable

# H1-3K/3.6K/4K/4.6K/5K/6K-S2 Datasheet

Model	H1-3K-S2	H1-3.6K-S2	H1-4K-S2	H1-4.6K-S2	H1-5K-S2	H1-6K-S2
<b>Input DC</b>						
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]	12.5/12.5					
Max. DC Short Circuit Current [A]	15/15					
Number of MPPT	2					
DC Switch	Integrated					
<b>Battery Parameters</b>						
Battery Type	Lithium battery					
Rated Input Voltage/Voltage Range [V]	48/42~58.5					
Max/Rated Charging Current [A]	60/60			100/100		
Charging Mode Control	3-stages					
<b>Grid Parameters</b>						
Rated Output Power [W]	3000	3680	4000	4600	5000 <sup>*1</sup>	6000
Max. Output Power [VA]	3000	3680	4000	4600	5000	6000
Rated Output Current [A]	13.1	16.0	17.4	20.0	21.8 <sup>*2</sup>	26.1
Max. Output Current [A]	13.6	16.7	18.2	20.9	22.7	27.3
Rated Grid Voltage/Range [V]	220,230,240/180~280					
Rated Grid Frequency/Range [Hz]	50,60/±5					
Power Factor [cos φ]	0.8 leading~0.8 lagging					
Total Harmonic Distortion [THDi]	< 3%					
Feed-in	L+N+PE					
<b>AC Output [Back-up Mode]</b>						
Max. Output Power [VA]	3000			4600	5000	
Peak Output Apparent Power [VA]	3600, 10sec			5500, 10sec	6000, 10sec	
Output Voltage [V]	220/230/240					
Output Frequency [Hz]	50/60					
Total Harmonic Distortion of Voltage	<3%					
<b>Efficiency</b>						
Max. Efficiency	97.6%					
Euro Efficiency	97.0%					
Max. Battery to Load Efficiency	94.6%					
<b>Protection</b>						
AC Short-circuit Protection	Integrated					
Overload Protection	Integrated					
DC Overvoltage/Undervoltage Protection	Integrated					
AC Overvoltage/Undervoltage Protection	Integrated					
AC Overfrequency/Underfrequency	Integrated					
Peak-to-trough Period Setting	Integrated					
<b>Interface</b>						
PV Input	MC4					
Battery	Terminal block					
Display	LCD					
Communication	Wi-Fi/ GPRS/ Ethernet (Optional)					
<b>General Data</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					
Standard Warranty [Year]	5					
Applicable Standard	IEC62109-1/2, IEC61000-6-1/2/3/4, EN50438, EN50549, C10/C11, IEC62116, IEC61727, RD1699, UNE 206006, UNE 206007, CEI 0-21, AS4777.2, CQC NB/T 32004, VDE-AR-N 4105					

Remarks: \*1 For AS/NZS 4777.2 Rated Output Power is 4999VA. \*2 For AS/NZS 4777.2 Rated Output Current is 21.7A.

# H1-4.6K/5K/6K-LS2 Datasheet

Model	H1-4.6K-LS2	H1-5K-LS2	H1-6K-LS2
<b>Input DC</b>			
Max. PV Array Power [Wp] @STC	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]		12.5/12.5	
Max. DC Short Circuit Current [A]		15/15	
Number of MPPT		2	
DC Switch		Integrated	
<b>Battery Parameters</b>			
Battery Type		Lithium battery	
Rated Input Voltage/Voltage Range [V]		48/42~58.5	
Max/Rated Charging Current [A]		60/60	
Charging Mode Control		3-stages	
<b>Grid Parameters</b>			
Rated Output Power [W]	4600	5000 <sup>*1</sup>	6000
Max.Output Power [VA]	4600	5000	6000
Rated Output Current [A]	20.0	21.8 <sup>*2</sup>	26.1
Max. Output Current [A]	20.9	22.7	27.3
Rated Grid Voltage/Range [V]		220, 230, 240/180~280	
Rated Grid Frequency/Range [Hz]		50, 60/±5	
Power Factor [cos φ]		0.8 leading~0.8 lagging	
Total Harmonic Distortion [THDi]		<3%	
Feed-in		L+N+PE	
<b>AC Output [Back-up Mode]</b>			
Max. Output Power [VA]		3000	
Peak Output Apparent Power [VA]		3600, 10sec	
Output Voltage [V]		220/230/240	
Output Frequency [Hz]		50/60	
Total Harmonic Distortion of Voltage		< 3%	
<b>Efficiency</b>			
Max. Efficiency		97.6%	
Euro Efficiency		97.0%	
Max. Battery to Load Efficiency		94.6%	
<b>Protection</b>			
AC Short-circuit Protection		Integrated	
Overload Protection		Integrated	
DC Overvoltage/Undervoltage Protection		Integrated	
AC Overvoltage/Undervoltage Protection		Integrated	
AC Overfrequency/Underfrequency		Integrated	
Peak-to-trough Period Setting		Integrated	
<b>Interface</b>			
PV Input		MC4	
Battery		Terminal block	
Display		LCD	
Communication		Wi-Fi/ GPRS/ Ethernet (Optional)	
<b>General Data</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	
Standard Warranty [Year]		5	
Applicable Standard	IEC62109-1/2, IEC61000-6-1/2/3/4, EN50438, EN50549, C10/C11, IEC62116, IEC61727, RD1699, UNE 206006, UNE 206007, CEI 0-21, AS4777.2, CQC NB/T 32004, VDE-AR-N 4105		

Remarks: <sup>\*1</sup> For AS/NZS 4777.2 Rated Output Power is 4999VA. <sup>\*2</sup> For AS/NZS 4777.2 Rated Output Current is 21.7A.