



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
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]	12.5/12.5					
Max. DC Short Circuit Current [A]	15/15					
Number of MPPT	2					
DC Switch	Integrated					
Battery Parameters						
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					
Grid Parameters						
Rated Output Power [W]	3000	3680	4000	4600	5000 ^{*1}	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 ^{*2}	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					
AC Output [Back-up Mode]						
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%					
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 Protection	Integrated					
AC Overvoltage/Undervoltage Protection	Integrated					
AC Overfrequency/Underfrequency	Integrated					
Peak-to-trough Period Setting	Integrated					
Interface						
PV Input	MC4					
Battery	Terminal block					
Display	LCD					
Communication	Wi-Fi/ GPRS/ Ethernet (Optional)					
General Data						
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
Input DC			
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		
Battery Parameters			
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		
Grid Parameters			
Rated Output Power [W]	4600	5000 ^{*1}	6000
Max.Output Power [VA]	4600	5000	6000
Rated Output Current [A]	20.0	21.8 ^{*2}	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		
AC Output [Back-up Mode]			
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%		
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 Protection	Integrated		
AC Overvoltage/Undervoltage Protection	Integrated		
AC Overfrequency/Underfrequency	Integrated		
Peak-to-trough Period Setting	Integrated		
Interface			
PV Input	MC4		
Battery	Terminal block		
Display	LCD		
Communication	Wi-Fi/ GPRS/ Ethernet (Optional)		
General Data			
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.