

SAJ

H1 SERIES

SINGLE PHASE



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

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

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

MODEL	H1-3K-S2	H1-3.6K-S2	H1-4K-S2	H1-4.6K-S2	H1-5K-S2	H1-6K-S2
DC Input						
Max. PV Array Power [Wp] @STC	4500	5400	6000	6900	7500	9000
Max. DC Voltage [V]	600					
MPPT Voltage Range [V]	90-550					
Rated 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					
No. of MPPT	2					
DC Switch	Integrated					
Battery Parameters						
Battery Type	Lithium battery					
Rated Input Voltage/Voltage Range [V]	48/42~58.5					
Rated Charging/ Discharging Current [A]	60/60			100/100		
Charging Mode Control	3-stages					
AC Output [On-grid]						
Rated AC Power [W]	3000	3680	4000	4600	5000 ^{*1}	6000
Rated Apparent Power [VA]	3000	3680	4000	4600	5000	6000
Rated AC Current [A]@230Vac	13.1	16.0	17.4	20.0	21.8 ^{*2}	26.1
Max. AC 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 Output Frequency [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]						
Rated Output Power [VA]	3000			4600	5000	
Peak Output Apparent Power [VA]	3600, 10s			5500, 10s	6000, 10s	
Output Voltage [V]	220/230/240					
Rated Output Frequency [Hz]	50/ 60 ±5					
Output THDv (@ Liner Load)	<3%					
Efficiency						
Max. Efficiency	97.6%					
Euro Efficiency	97.0%					
Max. Battery Charging 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 Connection	MC4					
Battery Connection	Terminal block					
Display	LCD					
Communication	Wi-Fi/ GPRS/ Ethernet (Optional)					
General Data						
Operating Temperature Range	-25°C to +60°C					
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]	5/10/15/20/25					
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.

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H1-4.6K-LS2 | H1-5K-LS2 | H1-6K-LS2

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60A Max. 60A
charge current



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Easy setting of
smart working modes

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

MODEL	H1-4.6K-LS2	H1-5K-LS2	H1-6K-LS2
DC Input			
Max. PV Array Power [Wp] @STC	6900	7500	9000
Max. DC Voltage [V]		600	
MPPT Voltage Range [V]		90-550	
Rated 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	
No. of MPPT		2	
DC Switch		Integrated	
Battery Parameters			
Battery Type		Lithium battery	
Rated Input Voltage/Voltage Range [V]		48/42~58.5	
Rated Charging/ Discharging Current [A]		60/60	
Charging Mode Control		3-stages	
AC Output [On-grid]			
Rated AC Power [W]	4600	5000*1	6000
Rated Apparent Power [VA]	4600	5000	6000
Rated AC Current [A]@230Vac	20.0	21.8*2	26.1
Max. AC Current [A]	20.9	22.7	27.3
Rated Grid Voltage/Range [V]		220, 230, 240/180~280	
Rated Output Frequency [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]			
Rated Output Power [VA]		3000	
Peak Output Apparent Power [VA]		3600, 10s	
Output Voltage [V]		220/230/240	
Rated Output Frequency [Hz]		50/ 60 ±5	
Output THDv (@ Liner Load)		< 3%	
Efficiency			
Max. Efficiency		97.6%	
Euro Efficiency		97.0%	
Max. Battery Charging 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 Connection		MC4	
Battery Connection		Terminal block	
Display		LCD	
Communication		Wi-Fi/ GPRS/ Ethernet (Optional)	
General Data			
Operating Temperature Range		-25°C to +60°C	
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]		5/10/15/20/25	
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	

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