

SAJ

H2 SERIES

SINGLE PHASE



H2-3K-S2 | H2-3.6K-S2 | H2-4K-S2
H2-5K-S2 | H2-6K-S2



Easy setting of
smart working modes

AFCI AFCI (optional)

16A DC 16A/ string matched
with ultra high PV modules



Battery fast charging/
discharging supported

150% 150% DC oversizing

UPS With UPS function
switch time $\leq 10\text{ms}$

H2-3K/ 3.6K/ 4K/ 5K/ 6K-S2

MODEL	H2-3K-S2	H2-3.6K-S2	H2-4K-S2	H2-5K-S2	H2-6K-S2
DC Input					
Max. PV Array Power [Wp]@STC	4500	5400	6000	7500	9000
Max. DC Voltage [V]	550				
MPPT Voltage Range [V]	90~500				
Rated DC Voltage [V]	360				
Start Voltage [V]	100				
Max. DC Input Current [A]	16 / 16				
Max. DC Short Circuit Current [A]	19.2 / 19.2				
No. of MPPT	2				
No. of Strings per MPPT	1/1				
Battery Parameters					
Battery Type	Lithium battery				
Battery Voltage Range [V]	85~450				
Rated Charging/ Discharging Current [A]	30/30				
Rated Charging/ Discharging Power [W]	3000	3680	4000	5000	6000
AC Output [On-grid]					
Rated AC Power [W]	3000	3680	4000	5000	6000
Rated Apparent Power [VA]	3300	3680	4400	5500	6000
Rated AC Current [A]@230Vac	13.0	16.0	17.4	21.7	26.1
Max. AC Current [A]	15.0	16.7	20.0	25	27.3
Rated AC Voltage	L/N/PE, 220/ 230V				
Rated Output Frequency [Hz]	50/ 60 ±5				
Power Factor [cos φ]	0.8 leading~0.8 lagging				
Total Harmonic Distortion [THDi]	<3%				
AC Output [Back-up Mode]					
Rated Output Power [VA]	3000	3680	4000	5000	6000
Max. Output Current [A]	13.6	16.7	18.2	22.7	27.3
Rated Output Voltage	L/N/PE, 220/ 230V				
Rated Output Frequency [Hz]	50/ 60 ±5				
Output THDv (@ Liner Load)	<3%				
Peak Output Apparent Power [VA]	3600, 60s	4200, 60s	4800, 60s	6000, 60s	7200, 60s
Efficiency					
Max. Efficiency	97.6%				
Euro Efficiency	97.0%				
Max. Battery Charging/ Discharging Efficiency	96.6%				
Protection					
AC Short Circuit Protection	Integrated				
Overload Protection	Integrated				
Residual Current Monitoring Unit	Integrated				
Battery Input Reverse Polarity Protection	Integrated				
Anti-islanding Protection	Integrated				
AC Surge Protection	Type II				
DC Surge Protection	Type II				
AFCI	Optional				
Interface					
PV Connection	MC4				
Battery Connection	Quick connector				
AC Output	Plug-in connector				
Display	LED+APP (Bluetooth)				
Communication Port	CAN+RS485+DRM+CT+RS232				
Communication	Wi-Fi/ Ethernet/ 4G(Optional)/ PLC(Optional)				
General Data					
Topology	Transformerless				
Operating Temperature Range	-40°C to +60°C				
Cooling Method	Natural convection				
Ambient Humidity	0%~100% non-condensing				
Altitude	4000m (>3000m power derating)				
Noise [dBA]	<25				
Ingress Protection	IP65				
Mounting	Rear panel				
Dimensions [H*W*D] [mm]	380.5*519*193.5				
Weight [kg]	18.5				
Warranty [Year]	5/10/15/20/25				
Applicable Standard	CEI 0-21, VDE4105-AR-N, VDE0126-1-1, EN50438, G98, G99, EN50549, AS4777.2 IEC62109-1&-2, EN61000-6-1/2/3/4				



H2 SERIES THREE PHASE



H2-5K-T2 | H2-6K-T2
H2-8K-T2 | H2-10K-T2



Easy setting of smart working modes

AFCI AFCI (optional)

15A DC 15A/ string matched with ultra high PV modules

150% 150% DC oversizing



Battery fast charging/ discharging supported

100% Supported 100% three phase voltage imbalance

UPS With UPS function switch time \leq 10ms

110% 110% AC overloading

H2-5K/ 6K/ 8K/ 10K-T2

MODEL	H2-5K-T2	H2-6K-T2	H2-8K-T2	H2-10K-T2
DC Input				
Max. PV Array Power [Wp]@STC	7500	9000	12000	15000
Max. DC Voltage [V]		1000		
MPPT Voltage Range [V]		180~900		
Rated DC Voltage [V]		600		
Start Voltage [V]		180		
Max. DC Input Current [A]		15 / 15		
Max. DC Short Circuit Current [A]		18 / 18		
No. of MPPT		2		
No. of Strings per MPPT		1/1		
Battery Parameters				
Battery Type		Lithium battery		
Battery Voltage Range [V]		180~600		
Rated Charging/ Discharging Current [A]		30/30		
Rated Charging/ Discharging Power [W]	5000	6000	8000	10000
AC Output [On-grid]				
Rated AC Power [W]	5000	6000	8000	10000
Rated Apparent Power [VA]	5500	6600	8800	11000
Rated AC Current [A]@230Vac	7.2	8.7	11.6	14.5
Max. AC Current [A]	8.3	10.0	13.3	16.7
Rated AC Voltage		220/ 380V, 230/ 400V, 3L/ N/ PE		
Rated Output Frequency [Hz]		50/ 60 ±5		
Power Factor [cos φ]		0.8 leading~0.8 lagging		
Total Harmonic Distortion [THDi]		<3%		
AC Output [Back-up Mode]				
Rated Output Power [VA]	5000	6000	8000	10000
Max. Output Current [A]	8.0	9.6	12.8	15.9
Rated Output Voltage		220/ 380V, 230/ 400V, 3L/ N/ PE		
Rated Output Frequency [Hz]		50/ 60 ±5		
Output THDv (@ Liner Load)		<3%		
Peak Output Apparent Power [VA]	10000, 60s	12000, 60s	16000, 60s	16500, 60s
Efficiency				
Max. Efficiency		98.0%		
Euro Efficiency		97.6%		
Max. Battery Charging/ Discharging Efficiency		97.6%		
Protection				
AC Short Circuit Protection		Integrated		
Overload Protection		Integrated		
Residual Current Monitoring Unit		Integrated		
Battery Input Reverse Polarity Protection		Integrated		
Anti-islanding Protection		Integrated		
AC Surge Protection		Type III		
DC Surge Protection		Type III		
AFCI		Optional		
Interface				
PV Connection		MC4		
Battery Connection		Quick connector		
AC Output		Plug-in connector		
Display		LED+APP		
Communication Port		CAN/ RS485/ DRM/ RS232		
Communication		Wi-Fi/ Ethernet/ 4G (Optional)		
General Data				
Topology		Transformerless		
Operating Temperature Range		-40°C to +60°C		
Cooling Method		Natural convection		
Ambient Humidity		0%~100% non-condensing		
Altitude		4000m (>3000m power derating)		
Noise [dBA]		<30		
Ingress Protection		IP65		
Mounting		Rear panel		
Dimensions [H*W*D] [mm]		433*549*207		
Weight [kg]		25		
Warranty [Year]		5/10/15/20/25		
Applicable Standard		CEI 0-21, VDE4105-AR-N, VDE0126-1-1, EN50438, G98, G99, EN50549, AS4777.2 IEC62109-1&-2, EN61000-6-1/2/3/4		