



H2 SERIES

SINGLE PHASE INVERTER



H2-5K-S3 | H2-6K-S3 | H2-7K-S3

H2-8K-S3 | H2-10K-S3



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 $\leq 10\text{ms}$



MODEL	H2-5K-S3	H2-6K-S3	H2-7K-S3	H2-8K-S3	H2-10K-S3
DC Input					
Max. PV Array Power [Wp]@STC	7500	9000	10500	12000	15000
Max. DC Voltage [V]	600				
MPPT Voltage Range [V]	90 ~ 500				
Rated DC Voltage [V]	360				
Start Voltage [V]	100				
Max.DC Input Current [A]	16/16/16				
Max.DC Short Circuit Current [A]	19.2/19.2/19.2				
No. of MPPT	3				
Battery Parameters					
Battery Type	LiFePO4				
Battery Voltage Range[V]	85 ~ 450				
Max.Charging/Discharging Current [A]	30/30				
AC Output [On-grid]					
Rated AC Power [W]	5000	6000	7000	8000	10000
Max.Apparent Power*1 [VA]	5500	6600	7700	8800	10000
Rated Output Current [A]@230Vac	21.7*2	26.1	30.4	34.8	43.5
Max. Output Current [A]	25.0	30.0	35.0	40.0	45.5
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%				
AC input [On-grid]					
Rated AC Voltage/Range [V]	L+N+PE, 220,230,240/180 ~ 280				
Rated Input Frequency [Hz]	50,60				
Max. Input Current [A]@230Vac	21.7	26.1	30.4	34.8	43.5
AC Output [Back-up]					
Max.Output Power [VA]	5000	6000	7000	8000	10000
Max. Output Current [A]	22.7	27.3	31.8	36.4	45.5
Peak Output Apparent Power [VA]	6000,60s	7200,60s	8400,60s	9600,60s	12000,60s
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%				
Efficiency					
Max. Efficiency	97.6%				
Euro Efficiency	97.0%				
Protection					
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				
AFCl Protection	Optional				
RSD Protection	Optional				
Interface					
PV Connection	MC4/H4				
AC Connection	Plug-in connector				
Battery Connection	Quick connector				
Display	LED+APP				
Communication	Wi-Fi/Ethernet/4G(Optional)				
General Parameters					
Topology	Non-isolated				
Operating Temperature Range	-40°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]	<35				
Ingress Protection	IP65				
Dimensions [H*W*D] [mm]	385.5*499*193.5				
Weight [kg]	26				
Warranty [Year]	5/10/15/20				
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, NBR 16149, NBR 16150, VDE-AR-N 4105				

Remarks: *1 According to C10/C11, Max. Apparent Power= Rated AC Power.

*2 According to VDE-ARN-N 4105, Rated AC Current for H2-5K-S3 is 20A.

Products are continuously updated and parameters are just for references.

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