

# H2 SERIES

## SINGLE PHASE



H2-5K-S3 | H2-6K-S3 | H2-7K-S3  
H2-8K-S3 | H2-10K-S3-A | H2-10K-S3



Easy setting of smart working modes

**AFCI** AFCI (optional)

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



Max. 3 MPPT trackers

**200%** 200% 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-A	H2-10K-S3
<b>DC Input</b>						
Max. PV Array Power [Wp]@STC*	7500	9000	10500	12000	15000	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					
<b>Battery Parameters</b>						
Battery Type	LiFePO4					
Battery Voltage Range[V]	85 ~ 450					
Max. Charging/Discharging Current [A]	50/50					
<b>AC Output [On-grid]</b>						
Rated AC Power [W]	4999	6000	7000	8000	9999	10000
Rated Apparent Power [VA]	4999	6000	7000	8000	9999	10000
Max. Apparent Power [VA]	4999	6600	7700	8800	9999	10000
Rated AC Output Current [A]	21.7	26.1	30.5	34.8	43.5	43.5
Max. AC Output Current to Utility Grid [A]	21.7	28.7	33.5	38.3	43.5	43.5
Current Inrush [A]	150.0					
Max. AC Fault Current [A]	120.0					
Max. AC Over Current Protection [A]	63.0	75.0	88.0	100.0	100.0	100.0
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%					
<b>AC Input [On-grid]</b>						
Rated AC Voltage/Range [V]	L+N+PE, 220,230,240/180 ~ 280					
Rated Input Frequency [Hz]	50,60					
Max. AC Current from Utility Grid [A]	43.5	52.2	60.9	69.9	69.9	69.9
<b>AC Output [Back-up]</b>						
Max. Output Power [VA]	4999	6000	7000	8000	9999	10000
Max. Output Current [A]	21.7	26.1	30.5	34.8	43.5	43.5
Peak Output Apparent Power [VA]	6000,60s	7200,60s	8400,60s	9600,60s	12000,60s	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%					
<b>Efficiency</b>						
Max. Efficiency	97.6%					
Euro Efficiency	97.0%					
<b>Protection</b>						
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					
AFCI Protection	Optional					
RSD Protection	Optional					
<b>Interface</b>						
PV Connection	MC4/H4					
AC Connection	Plug-in connector					
Battery Connection	Quick connector					
Display	LED+APP					
Communication	Wifi/ethernet/4G (optional)					
<b>General Parameters</b>						
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]	430.5*549*223					
Weight [kg]	26					
Warranty [Year]	5/10/15/20					
Standard	CEI 0-21, VDE4105-AR-N, VDE0126-1-1, EN50438, G98, G99, EN50549, AS4777.2, IEC62109-1&-2, IEC62040-1, EN61000-6-1/2/3/4					

Remarks: \* Under the premise of meeting the maximum input voltage and maximum input current of the inverter, 5kW, 6kW, 7kW, 8kW inverters can meet the maximum 200% access without failure. The allowed access power does not represent the actual input power and output power of the device!  
This value is for user reference, please consult SAJ Australia technical support for the actual number of PV panels to be installed