



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 $\leq 10\text{ms}$

Model	H2-3K-S2	H2-3.6K-S2	H2-4K-S2	H2-5K-S2	H2-6K-S2
PV String Input					
Max. PV Array Power [Wp]@STC	4500	5400	6000	7500	9000
Max. DC Voltage [V]	550				
MPPT Voltage range [V]	90~500				
Nominal DC Voltage [V]	360				
Start Voltage/Min. Input Voltage [V]	100				
Max. DC Input Current [A]	16 / 16				
Max.DC Short Circuit Current [A]	19.2 / 19.2				
Number of MPPT	2				
No. of Strings per MPPT	1/1				
Battery Input					
Rated Charging/ Discharging Power [W]	3000	3680	4000	5000	6000
Battery Type	Lithium battery				
Battery Voltage Range [V]	85~450				
Max. Charging/ Discharging Current [A]	30/30				
AC Output / nput Data (On-grid)					
Rated AC Power [W]	3000	3680	4000	4999	6000
Rated Apparent power[VA]	3000	3680	4000	4999	6000
Max. Apparent power[VA]	3300	3680	4400	4999	6000
Rated/Max. AC Current Output to Utility Grid [A]	15.0	16.7	20.0	21.7	27.3
Max. AC Current from Utility Grid [A]	26.1	32.0	34.8	43.5	52.2
Current Inrush [A]	100				
Max. AC Fault Current [A]	55				
Max. AC Over Current Protection [A]	55				
Nominal AC Voltage [V]	L/N/PE, 220/ 230				
Grid Frequency/ Range [Hz]	50, 60				
Total Harmonic Distortion [THDi]	< 3% (at nominal power)				
Power Factor [cos ϕ]	0.8 leading~0.8 lagging				
AC Output [Back-up Mode]					
Max. Output Power [VA]	3000	3680	4000	4999	6000
Rated Output Voltage [V]	230Vac, L/N/PE				
Rated Output Frequency[Hz]	50/ 60				
Output THDv (@ LinerLoad)	<3%				
Peak Output Apparent Power [VA]	3600, 60s	4200, 60s	4800, 60s	6000, 60s	7200, 60s
Max.Output Current [A]	13.6	16.7	18.2	22.7	27.3
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 (AFD)				
AC Surge Protection	Type II				
DC Surge Protection	Type II				
AFCI	Optional				
Interface					
PV Input	MC4/H4				
Battery	Quick connector				
AC Output	Plug-in connector				
Display	LED+LCD+APP(Bluetooth)				
Communication Port	CAN+RS485+DRM+CT+RS232				
Communication	Wi-Fi/Ethernet/4G(Optional)/PLC(Optional)				
General Data					
Topology	Non-isolated				
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]	<25				
Ingress Protection	IP65				
Mounting	Rear panel				
Dimensions[H*W*D] [mm]	385.5*499.0*193.5				
Weight [kg]	17.6				
Standard Warranty [Year]	5 (standard)/10/15/20/25 (Optional)				
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				