

# HS2 SERIES

## SINGLE PHASE HYBRID ALL-IN-ONE SOLUTION



HS2-3K-S2 | HS2-3.6K-S2 | HS2-4K-S2  
HS2-5K-S2 | **HS2-5K-S2 -B** | HS2-6K-S2



Easy installation  
with pre-wiring

**16A**

Max 16A input current to  
better match high power  
panel



Modular design and  
expandable up to 20.0kWh

**UPS**

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

**IP65**

IP65 outdoor design

**AFCI**

AFCI integrated(optional)  
RSD supported(optional)



MODEL	HS2-3K-S2	HS2-3.6K-S2	HS2-4K-S2	HS2-4.6K-S2	HS2-5K-S2	HS2-5K-S2-B	HS2-6K-S2
DC Input							
Max. PV Array Power [Wp]@STC	4500	5400	6000	6900	7500	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						
Battery Parameters							
Battery Type	LiFePO4						
Battery Voltage Range[V]	85~450						
Max.Charging/Discharging Current [A]	30/30						
Scalability	BU2-5.0-HV1/5 (up to 4 battery modules)						
AC Output [On-grid]							
Rated AC Power [W]	3000	3680	4000	4600	5000	5000	6000
Max.Apparent Power [VA]	3300	3680	4400	4600	5500	5000	6000
Rated Output Current [A]@230Vac	13.0	16.0	17.4	20.0	21.7	21.7	26.1
Max. Output Current [A]	15.0	16.7	20.0	20.0	25.0	22.7	27.3
Current Inrush [A]	100.0						
Max. AC Fault Current [A]	55.0						
Max. AC Over Current Protection [A]	55.0						
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%						
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	26.1	32.0	34.8	40.0	43.5	43.5	26.1
AC Output [Back-up]							
Max. Output Power [VA]	3000	3680	4000	4600	5000	5000	6000
Max. Output Current [A]	13.6	16.7	18.2	20.9	22.7	22.7	27.3
Peak Output Apparent Power [VA]	3600, 60s	4416, 60s	4800, 60s	5520, 60	6000, 60s	6000, 60s	7200, 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
AFCI 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	-10°C to +50°C (>45°C 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]	354*626*365
Weight [kg]	25
Warranty [Year]	5/10/15/20
Standard	EN 62109-1/2, EN 61000-6-2/4, EN 50438, EN 50549, C10/11, IEC 62116, IEC 61727, RD 1699, RD 413, UNE 206006, UNE 206007, NTS, CEI 0-16, CEI 0-021, AS 4777.2, NBR 16149, NBR 16150 VDE-AR-N 4015, VDE 0126-1-1