

# HS2 SERIES

## SINGLE PHASE HYBRID ALL-IN-ONE SOLUTION



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



Easy installation  
with pre-wiring



Max 16A input current to  
better match high power  
panel



Modular design and  
expandable up to 20.48kWh

**UPS**

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

**IP65**

IP65 outdoor design



AFCl integrated(optional)  
RSD supported(optional)

MODEL	HS2-3K-S2	HS2-3.6K-S2	HS2-4K-S2	HS2-5K-S2	HS2-6K-S2
<b>DC Input</b>					
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				
<b>Battery Parameters</b>					
Battery Type	LiFePO4				
Battery Voltage Range [V]	85 ~ 450				
Max.Charging/ Discharging Current [A]	30/30				
Scalability	BU2-5.12-HV1 (up to 20.48kWh)				
<b>AC Output [On-grid]</b>					
Rated AC Power [W]	3000	3680	4000	5000	6000
Max.Apparent Power*1 [VA]	3300	3680	4400	5500	6000
Rated Output Current [A]@ 230Vac	13.0	16.0	17.4	21.7*2	26.1
Max. Output Current [A]	15.0	16.7	20.0	25.0	27.3
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 Output Frequency [Hz]	50,60				
Max. Input Current [A]@ 230Vac	13.0	16.0	17.4	21.7	26.1
<b>AC Output [Back-up]</b>					
Max.Output Power [VA]	3000	3680	4000	5000	6000
Max. Output Current [A]	13.6	16.7	18.2	22.7	27.3
Peak Output Apparent Power [VA]	3600,60s	4200,60s	4800,60s	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 (@ Liner 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	Wi-Fi/Ethernet/4G(Optional)				
<b>General Parameters</b>					
Topology	Non-isolated				
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]	<35				
Ingress Protection	IP65				
Dimensions [H*W*D] [mm]	474*626*365				
Weight [kg]	18.5				
Warranty [Year]	5/10/15/20/25				
Standard	EN62109-1/2, EN61000-6-2/4, EN50438, EN50549, C10/11, IEC62116, IEC61727, RD1699, RD413, UNE 206006, UNE 206007, NTS, CEI 0-16, AS4777.2, NBR16149, NBR 16150 VDE-AR-N 4015, VDE 0126-1-1				

Remarks: \*1According to C10/C11, Max. Apparent Power= Rated AC Power; \*2According to VDE-ARN-N 4105, Rated AC Current for HS2-5K-S2 is 20A.