



# HS2 SERIES

THREE PHASE HYBRID ALL-IN-ONE SOLUTION



AC retrofit & easy installation

**16A**

Max 16A input current to better match high power panel



Modular design and expandable up to 25.0kWh

**UPS**

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

**IP65**

IP65 outdoor design

**100%**

Supported 100% three phase voltage imbalance



MODEL	HS2-5K-T2-X	HS2-6K-T2-X	HS2-8K-T2-X	HS2-10K-T2-X	HS2-10K-T2-B-X
<b>DC Input</b>					
Max. PV Array Power [Wp]@ STC	7500	9000	12000	15000	15000
Max. DC Voltage [V]	1000				
MPPT Voltage Range [V]	180 ~ 900				
Rated DC Voltage [V]	600				
Start Voltage [V]	180				
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]	180 ~ 600				
Max. Charging/ Discharging Current [A]	30/30				
Scalability	BU2-5.0-HV1/5 (up to 5 battery modules)				
<b>AC Output [On-grid]</b>					
Rated AC Power [W]	5000	6000	8000	10000	10000
Max. Apparent Power*1 [VA]	5500	6600	8800	11000	10000
Rated Output Current [A]@ 230Vac	7.2	8.7	11.6	14.5	14.5
Max. Output Current [A]	8.3	10.0	13.3	16.7	15.2
Current Inrush [A]	52.0				
Max. AC Fault Current [A]	45.0				
Max. AC Over Current Protection [A]	20.8	25.0	33.3	41.8	41.8
Rated AC Voltage/ Range [V]	3L+N+PE, 220/380, 230/400, 240/415; 180 ~ 280/312 ~ 485				
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]	3L+N+PE, 220/380, 230/400, 240/415; 180 ~ 280/312 ~ 485				
Rated Input Frequency [Hz]	50,60				
Max. Input Current [A]@ 230Vac	14.5	17.4	23.2	29.0	29.0
<b>AC Output [Back-up]</b>					
Max. Output Power [VA]	5000	6000	8000	10000	10000
Max. Output Current [A]	8.0	9.6	12.8	15.9	15.9
Peak Output Apparent Power [VA]	10000, 60s	12000, 60s	16000, 60s	16500, 60s	16500, 60s
Rated AC Voltage/Range [V]	3L+N+PE, 220/380, 230/400, 240/415; 180 ~ 280/312 ~ 485				
Rated Output Frequency/Range [Hz]	50,60/45 ~ 55,55 ~ 65				
Output THDv (@ Linear Load)	<3%				
<b>Efficiency</b>					
Max. Efficiency	98.0%				
Euro Efficiency	97.6%				
<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	-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]	450*626*365				
Weight [kg]	32				
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 O-021, AS 4777.2, NBR 16149, NBR 16150 VDE-AR-N 4105, VDE 0126-1-1				

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