



NEW
ENERGY

Home Energy All-in-one Solution

Home Energy All-in-one

Single Phase All-in-One Solution



Energy Controller or Storage Controller

Single phase grid connection (kW)

3.0

4.0

5.0

6.0

DC Charger Module (kW)

7

Battery (kWh)

5

Support **1 – 8**

batteries combined for a single System

5 kWh– 40 kWh

Energy capacity range for a single System

SPECIFICATIONS

Models	HS3-3K-S2-W/G-PX	HS3-3.6K-S2-W/G-PX	HS3-4K-S2-W/G-PX	HS3-4.6K-S2-W/G-PX	HS3-5K-S2-W/G-PX	HS3-6K-S2-W/G-PX
DC Input						
Max. PV Array Power [Wp]@STC	6000	7200	8000	9200	10000	12000
Max. DC Voltage [V]				600		
MPPT Voltage Range [V]				90~550		
Rated DC Voltage [V]				360		
Start Voltage [V]				100		
Max. DC Input Current [A]				20/20		
Max. DC Short Circuit Current [A]				25/25		
No. of MPPT				2		
AC Output/Input [On-grid]						
Rated AC Power [W]	3000	3600	4000	4600	5000	6000
Max. Apparent Power [VA]	3300	3600	4400	4600	5500	6000
Rated Output Current [A]@230Vac	13	15.7	17.4	20	21.7	26.1
Max. Output Current [A]	14.3	15.7	19.1	20	23.9	27.3
Max. Input Current [A]@230Vac				54.5		
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%			
Battery Parameters						
Battery Type			LiFePO4			
Battery Voltage Range[V]			380 ~ 500			
Max. Charging/Discharging Current [A]	15.8/9.2	15.8/10	15.8/12.4	15.8/12.9	15.8/15.2	15.8/16.8
Scalability			BU3-5.0-TV2-PRO (up to 8 battery modules)			
AC Output [Back-up]						
Rated Output Power [W]	3000	3680	4000	4600	5000	6000
Peak Output Apparent Power [VA]	3600,60s	4416,60s	4800,60s	5520,60s	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			97.60%			
Euro Efficiency			97.20%			
Protection						
Battery Input Reverse Polarity Protection			Integrated			
Over load Protection			Integrated			
AC Short Circuit Current Protection			Integrated			
AC Overcurrent Protection			Integrated			
AC Overvoltage Protection			Integrated			
DC Surge Protection			Type II			
AC Surge Protection			Type II			
Anti-islanding Protection			Integrated			
AFCI Protection			Integrated			
Interface						
PV Connection			MC4/D4			
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			(-30°C ~ +50°C)			
Cooling Method			Natural Convection			
Relative Humidity Range			0-100% Non-condensing			
Max. Operating Altitude [m]			3000			
Noise [dBA]			<35			
Ingress Protection			IP65			
Inverter Dimensions [H*W*D] [mm]			400*695*170			
Battery Dimensions [H*W*D] [mm]			420*695*170			
Inverter Weight [kg]			27.5			
Battery Weight [kg]			53			
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 0-21, AS 4777.2, NBR 16149, NBR 16150 VDE-AR-N 4105, VDE 0126-1-1					
Charger Model						
Output Voltage [V AC]			CU2-7.4K-S-1			
Max. output Current [A]			230, ± 20%			
Rated Output Power [kW]			32			
Power Consumption (standby) [W]			7			
Dimension [mm] [H*W*D]			160*695*170			
Weight [kg]			9			
Working Temperature			(-30°C to +50°C)			
Ambient Humidity			5~95% non-condensing			

Home Energy All-in-one

Three Phase All-in-One Solution



Energy Controller or Storage Controller

Three phase grid connection (kW)

5.0

6.0

8.0

10

12

DC Charger Module (kW)

11

Battery (kWh)

5

Support 1 – 8

batteries combined for a single System

5 kWh– 40 kWh

Energy capacity range for a single System

SPECIFICATIONS

Models	HS3-5K-T2-W/G-PX	HS3-6K-T2-W/G-PX	HS3-8K-T2-W/G-PX	HS3-10K-T2-W/G-PX	HS3-12K-T2-W/G-PX
DC Input					
Max. PV Array Power [Wp]@STC	10000	12000	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]			20/20		
Max. DC Short Circuit Current [A]			25/25		
No. of MPPT			2		
AC Output/Input [On-grid]					
Rated AC Power [W]	5000	6000	8000	10000	12000
Max. Apparent Power [VA]	5500	6600	8000	11000	12000
Rated Output Current [A]@230Vac	7.2	8.7	11.6	14.5	17.4
Max. Output Current [A]	8	9.6	12.8	15.9	17.4
Max. Input Current [A]@230Vac			29		
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%		
Battery Parameters					
Battery Type			LiFePO4		
Battery Voltage Range[V]			380 ~ 500		
Max. Charging/Discharging Current [A]	30/15.8	30/18.4	30/25	30/30	30/30
Scalability			BU3-5.0-TV2-PRO (up to 8 battery modules)		
AC Output [Back-up]					
Rated Output Power [W]	5000	6000	8000	10000	12000
Peak Output Apparent Power [VA]	7500,60s	9000,60s	12000,60s	15000,60s	15000,60s
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%		
Efficiency					
Max. Efficiency			98.00%		
Euro Efficiency			97.60%		
Protection					
Battery Input Reverse Polarity Protection			Integrated		
Over load Protection			Integrated		
AC Short Circuit Current Protection			Integrated		
AC Overcurrent Protection			Integrated		
AC Overvoltage Protection			Integrated		
DC Surge Protection			Type II		
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Anti-islanding Protection			Integrated		
AFCI Protection			Integrated		
Interface					
PV Connection			MC4/D4		
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			(-30°C ~ +50°C)		
Cooling Method			Natural Convection		
Relative Humidity Range			0-100% Non-condensing		
Max. Operating Altitude [m]			3000		
Noise [dBA]			<35		
Ingress Protection			IP65		
Inverter Dimensions [H*W*D] [mm]			450*695*170		
Battery Dimensions [H*W*D] [mm]			420*695*170		
Inverter Weight [kg]			34		
Battery Weight [kg]			53		
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 0-21, AS 4777.2, NBR 16149, NBR 16150 VDE-AR-N 4105, VDE 0126-1-1				
Charger Model					
Output Voltage [V AC]			CU2-11K-T-I		
Max. output Current [A]			400, ± 20%		
Rated Output Power [kW]			16		
Power Consumption (standby) [W]			11		
Dimension [mm] [H*W*D]			5		
Weight [kg]			160*695*170		
Working Temperature			9		
Ambient Humidity			(-30°C to +50°C)		
			5~95% non-condensing		