KSH

5/6/8/10A/10E

Inverter

Adapts to high-intensity PV modules at 18A.

Parallel connections possible for up to 10 units.

Fully supports unbalanced loads.

Remote adjustments and upgrades for firmware & mode.

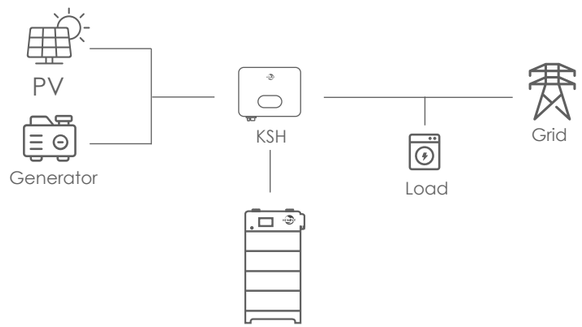
Rapid UPS-level shift in <10ms.

VPP / FFR function available

- ✓ Compact Size
- ✓ Extreme Safety
- ✓ Data Visualization
- ✓ Excellent Scalability
- ✓ Good Controllability
- ✓ Cloud Service

Your Green Energy Manufacturer

System Layout



KSH & HV BESS

Product Specifications

www.kowint.com
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	KSH5E	KSH6E	KSH8E	KSH10AE	KSH10E
PV Input Data					
Recommended Max. PV Power (Wp)	7500	9000	12000	15000	15000
Max. PV Input Voltage (V)			1000		
MPPT Voltage Range (V)			160 ~ 950		
Rated PV Input voltage (V)			600		
Start-up Voltage (V)			180		
No. of MPP Trackers			2		
No. of Input Strings per Tracker			1		
Max. Input Current per MPPT (A)			36（18 / 18）		
Max. Short-circuit Current per MPPT (A)			46（23 / 23）		
DC Switch			Integrated		
AC Output Data					
Maximum Apparent Power (VA)	5500	6600	8800	10000	11000
Rated AC Power (W)	5000	6000	8000	10000	10000
Maximum AC Current (A)	7.6	9.1	12.2	14.4	15.2
Rated AC Current (A)	7.2	8.7	11.5	14.4	14.4
Rated AC Voltage / Range (V)			3/N / PE, 220 /380, 230 / 400; ±20%		
Grid Frequency / Range (Hz)			50 / 60; ±5		
Adjustable Power Factor (cosφ)			0.8 leading ~ 0.8 lagging		
Output THDi (@Rated Output)			<3%		
AC Input Data					
Max .apparent AC Power (VA)	10000	12000	16000	20000	20000
Max. AC Current (A)	15.2	18.2	24.4	28.8	30.4
Rated AC Voltage / Range (V)			3/ N / PE,220 /380,230 / 400; ±20%		
Grid Frequency / Range (Hz)			50 / 60; ±5		
Battery Data					
Battery Type			Lithium		
Battery Voltage Range (V)			160 ~ 700		
Max. Charging / Discharging Current (A)			30 / 30		
Communication Interface			CAN		
EPS Output Data (With Battery)					
EPS Rated Power (W)	5000	6000	8000	10000	10000
EPS Rated Voltage (V)			3 / N / PE, 220 / 380, 230 / 400		
EPS Rated Frequency (Hz)			50 / 60		
EPS Rated Current (A)	7.6	9.1	12.2	14.4	15.2
Output THDi (@Rated Output)			<3%		
Automatic Switch Time (ms)			10		
Peak Apparent Power, Duration (VA, s)	7500, 60	9000, 60	12000, 60	15000, 60	15000, 60
Efficiency					
Max. Efficiency	98.00%	98.00%	98.00%	98.00%	98.00%
Euro Efficiency	97.70%	97.70%	97.70%	97.70%	97.70%
Max. Battery Charge / Discharge Efficiency	97.60%	97.60%	97.60%	97.60%	97.60%
Protection					
DC Insulation Monitoring			Integrated		
Input Reverse Polarity Protection			Integrated		
Anti-island Protection			Integrated		
Residual Current Monitoring			Integrated		
Over-heat Protection			Integrated		
AC Overcurrent Protection			Integrated		
AC Short-circuit Protection			Integrated		
AC Overvoltage Protection			Integrated		
DC Surge Protection			Integrated (Type II)		
AC Surge Protection			Integrated (Type II)		
General Data					
Size (Width * Height * Depth) (mm))			520 * 412 * 188		
Weight (kg)			27		
User Interface			LED + OLED		
Communication			RS485 and USB or Wifi or 4G (Optional)		
Operating Temperature Range (℃)			-25~ +60		
Relative Humidity			0~100%		
Operating Altitude (m)			<2000		
Standby Self Consumption (W)			<15		
Topology			Transformerless		
Cooling			Natural		
Enclosure			IP65		
Noise (dB)			<35		
Warranty (years)			5		
Certifications & Standards					
Grid Regulation	VDE 4105, EN 50549-1, VDE 0126, CEI 0-21, EN 50549-GR, EN 50549-PL, TOR Erzeuger, EN50549-CZ, AS4777, UNE217002				
Safety Regulation	IEC 62109-1, IEC 62109-2				
EMC	IEC 61000-6-1, 1EC 61000-6-3				

KSL-E

4.5/5.4/6/6.9 7.5/9/12K

Inverter

Supports diverse battery kinds.

Easy mobile setup and upkeep with top efficiency of ≥97.5%.

Space-efficient design with compact size.

Built-in protection against backflow.

Guard against reverse battery connection.

Terminal for managing household energy.

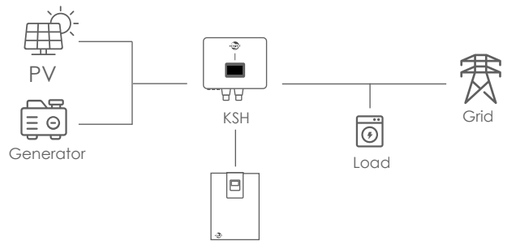
Electricity programming and demand adjustment.

Distributed VPP coordination.

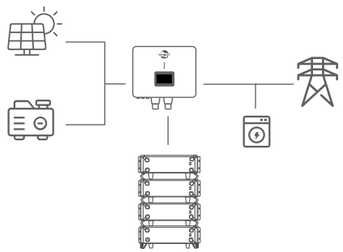
- ✓ Compact Size
- ✓ Extreme Safety
- ✓ Data Visualization
- ✓ Excellent Scalability
- ✓ Good Controllability
- ✓ Cloud Service

Your Green Energy Manufacturer

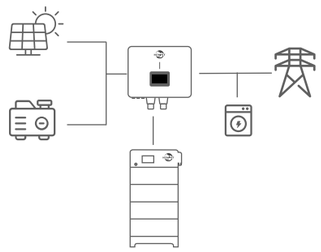
System Layout



KSH & W5000



KSH & R5000



KSH & S40K

Product Specifications

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	KSL4.5E	KSL5.4E	KSL6E	KSL6.9E	KSL7.5E	KSL9E	KSL12E
PV Input Data							
Max. Input power (kW)	4.5	5.4	6	6.9	7.5	9	12
Start-up voltage (V)				100			
Max. PV input voltage(V)				550			
MPPT range/nominal (V)				80~500/360			
Max.input current of single MPPT(A)	16/16	16/16	16/16	16/16	16/16	16/16	16/32
MPPT tracker quantity	2	2	2	2	2	2	2
MPPT quantity/ The number of input strings supported by each mppt	1/1	1/1	1/1	1/1	1/1	1/1	1/2
AC Output Data							
Rated power (kW)	3	3.68	4	4.6	5	6	8
Rated AC current output to grid (A)	13	16	17.4	20	21.7	26	35
Nominal voltage/range(V)				230/176~270			
Frequency (Hz)				50/60			
Power factor				1(0.8 leading-0.8 lagging)			
THDi				<3%			
AC grid type				L+N+PE			
Battery Data							
Battery voltage range(V)				40~58			
Max. charging voltage(V)				58			
Max. charge/discharge current(A)	60/60	72/72	80/80	92/92	100/100	120/120	160/160
Battery type				Lithium /Lead-acid			
Communication interface				CAN			
EPS Output							
Rated power (kW)	3.68	3.6	4	4.6	5	6	8
Rated voltage(V)				230			
Rated AC current output to grid (A)	13	16	17.4	20	21.7	26	35
Rated frequency(Hz)				50/60			
Automatic switchover time(ms)				<10			
THDu				<2%			
Overload capacity				100%, 60s/120%, 30s/150%, 10s			
General Data							
Battery Charge/Discharge Efficiency				96%			
Max. Efficiency				98%			
Europe Efficiency				97%			
Mppt Efficiency				99.9%			
Ingress Protection				IP65			
Noise Emission (dB)				<35			
Operation Temperature (*c)				-25~60			
Cooling				Natural			
Relative Humidity				0~95% (non-condensing)			
Operating Altitude				0-2000m (no derating below 2000m)			
Dimensions(W*D*H)				454.5*200*467mm 8*7.8*18.3in			467*200*484mm 18.3*7.8*19in
Weight				18kg / 40lb			20kg / 44lb
Topology				Non-isolated			
Self-consumption At Night (W)				<20			
Display & Communication							
Display				Optional (colorful touch screen /no screen)			
Interface				RS485/Wifi/4G/CAN/DRM			
Certifications							
Certifications				EMC, EN50549-1, IEC 62109-1/IEC 62109-2, EN62109-1/EN62109-2, CE, NRS, G99			