

Split-Phase Hybrid LV Inverter

KSL-U-B Series



HIGH PERFORMANCE

- Max.DC input power 12kW.
- Supports 4 machines in parallel.



SAFE AND RELIABLE

- IP65 design, available for indoor / outdoor.



USER FRIENDLY SETUP

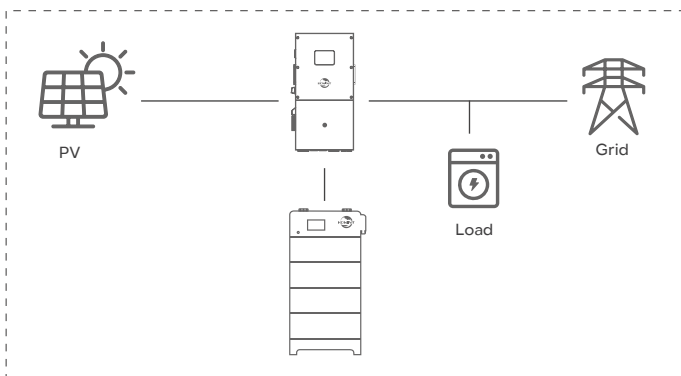
- Could platform / APP remote monitor.
- Touch screen display.



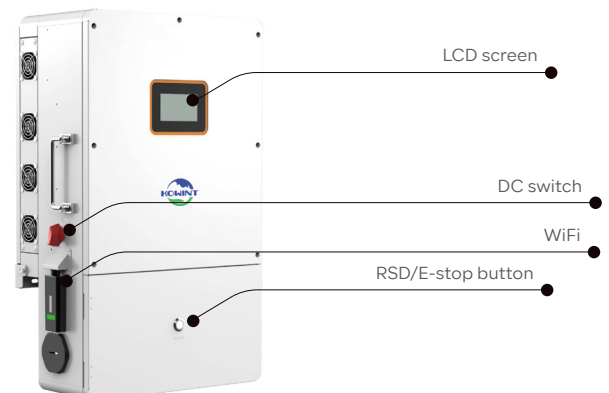
EASY INSTALLATION

- Wall-mount design saves installation space.

● System Layout



● System Demonstration



● Product Specifications

PV Input	KSL-8KU-B	KSL-12KU-B	KSL-16KU-B
Max.DC Input Power(kW)	12	18	24
No. of MPPT Trackers	4	4	4
MPPT Voltage Range(Without Battery)	120 - 500	120 - 500	120 - 500
MPPT Voltage Range(With battery)	120 - 430	120 - 430	120 - 430
MAX.DC Input Voltage(V)	500	500	500
MAX. input Current Per MPPT(A)	16 / 16 / 16 / 16	16 / 16 / 16 / 16	20 / 20 / 20 / 20
MAX. short Current Per MPPT(A)	22 / 22 / 22 / 22	22 / 22 / 22 / 22	25 / 25 / 25 / 22
Battery Input			
Nominal Voltage(V)	48	48	48
MAX.Charging / Discharging Current(A)	170 / 170	250 / 260	260 / 280
Battery Voltage Range(V)		40 ~ 58	
Battery Type		Lithium / Lead-acid	
Charging Controller		3-Stage with Equalization	
AC Output (On-grid)			
Nominal Output Power Output to Grid(kVA)	8	12	16
MAX.Apparent Power Output to Grid(kVA)	8.8	13.2	17.6
Output Voltage Range		(110 ~ 120) / (220 ~ 240)Split Phase, 240 Single Phase	
Output Frequency(Hz)		60(55 to 65)	
Nominal AC Current(A)	33.3	50	66.7
Max. AC Current(A)	36.7	55	73.3
Max. Grid Passthrough Current(A)	200	200	200
Output THDi		<3%	
AC Output (Back-up)			
Nominal.Apparent Power(kVA)	8	12	12
Max.DC Input Power(kW)	8.8	12	13.2
No. Of Mppt Trackers	8.8	13.2	13.2
Nominal Output Voltage(V)		120 / 240	
Nominal Output Frequency(Hz)		60	
Output THDu		<2%	
Output Power Factor		0.8leading ~ 0.8lagging	
Protection			
Battery Input / Island Protection		Yes	
Insulation Resistor Detection		Yes	
Residual Current Monitoring Unit		Yes	
Output Over Current Protection		Yes	
Back-up Output Short Protection		Yes	
Ac Output(On-grid)		Yes	
Output Under Voltage Protection		Yes	
General Data			
Mppt Efficiency		99.9%	
Europe Efficiency(PV)		96.2%	
PV to Grid Efficiency(PV)		96.5%	
Battery to Load Efficiency		94.6%	
PV to Battery Charing Efficiency		95.8%	
Grid to Battery Charing Efficiency		94.5%	
Operating Temperature Range(°C)		-25 ~ +60	
Relative Humidity		0 ~ 95%	
Operating Altitude (M)		0~4,000(Derating above 2,000m Altitude)	
Ingress Protection		IP65/NEMA 3R	
Weight(Approximate)		56kg	
Dimensions(W*D*H)		495*260*900mm	
Cooling		FAN Cooling	
Noise Emission(dB)		38	
Display		Touch Panel	
Communication with BMS / Meter / EMS		RS485, CAN	
Supported Communication Interface		RS485, 4G(Optional), Wi-Fi	
Self-consumption(W)		<25	
Safety	UL1741, UL1741SA&SB all options, UL1699B, CSA -C22.2 NO.107.1-01, RSD(NEC690.5,11,12)		
EMC	FCC Part 15 Class B		
Grid Connection Standards	"IEEE 1547, IEEE 2030.5, HECO Rule 14H, CA Rule 21 Phase I,II,III, CEC, CSIP, SRD2.0, SGIP, OGPe, NOM, California Prob65"		
Operating Temperature Range(°C)		-25 ~ +60	
Relative Humidity		0 ~ 95%	
Other Data			
Backup Conduit / Grid Conduit		3"	
AC Solar Conduit / PV Input Conduit		2"	
Bat Input Conduit		2"	
PV Switch		Integrated	