OFF GRID
RESIDENTIAL SERIES

AU1.6-11KESL-OG
HIGH FREQUENCY INVERTER

Efficient Energy Conversion

- Max. efficiency > 95%
- Max. PV input current per string up to 20 A

Reliable Off-Grid Operation

- Transfer time: 20 ms (household loads)
- Strong peak overload capability
- Wide operating temperature: -15°C to 60°C
- IP 21 ingress protection

Scalable System Flexibility

- PV-only operation supported
- Dry contact generator start supported

>95% Max efficiency

20A Max current for single PV

9 units Up to in parallel

IP21 Ingress Protection

Technical Specification

		AU1.6KESL-OG	AU3KESL-OG	AU3.6KESL-OG	AU4KESL-OG	AU5.5KESL-OG	AU6.2KESL-OG	AU6.5KESL-OG	AU8.6KESL-OG	AU11KESL-OG
PV INPUT										
PV Charging Method		MPPT								
Max. PV Input Power	[W]	2000	5000	6500	6500	8500	8500	8500	2*6500	2*7500
MPPT Tracking Range	[V]	30~500	60~500						90~500	
Max. PV Input Voltage	[V]	500								
Max.PV Input Current	[A]	13	18	27	27	27	27 (MAX.36)			
AC OUTPUT-GRID										
Output Voltage	[V]	/	208/220/230/240±5% (Feed-in Grid Voltage Range:195~253)							
Power Factor		/	>0.99							
Output Current	[A]	/	13.6	15.7	16.3	23.9	26.9	26.9	37.4	47.8
Frequency	[Hz]	50/60±0.1%								
AC OUTPUT-LOAD										
Rated Power	[VA]	1600	3000	3600	4000	5500	6200	6500	8600	11000
Dual Output Power	[W]	/	3000/3000	3600/3600	4000/4000	5500/5500	6200/6200	6500/6500	8600/8600	11000/11000
Second Load Cut Off Voltage	[V]	/	22			44				
Second Load Return Voltage	[V]	/	26			52				
Transfer Time (Adj ustable)		10ms for Computer Equipment, 20ms for Household Equipment								
Output Voltage	[V]	208/220/230/240VAC±5%							220/230/240VAC±5%	
Output Frequency	[Hz]	50/60±0.1%								
Waveform		Pure sine wave								
Switching Time (settable)	[ms]	Computer equipment 10, household appliances 20								
Peak Power	[W]	3200	6000	7200	7200	11000	12400	12400	17200	22000
Overload Capacity		Battery Mode: 21s@102%~110% load 10s@110%~130% load 3s@130%~150% load 400ms@>150% load							21s@105%~150% Load 11s@150%~200% Load 400ms@>200%	
Peak Efficiency (Battery Mode)		>94%								
AC INPUT										
Input Formation		L+N+PE								
AC Input	[V]	220/230/240								
Input Voltage Range	[V]	90-280VAC±3V (Normal Mode) 185-264VAC±3V (UPS Mode)								
BATTERY PARAMETERS										
Rated Voltage	[V]	12	24			48				
Constant Charging Voltage	[V]	14.1	28.2			56.4				
Float Charging Voltage	[V]	13.5	27			54				
Max. PV Charging Current	[A]	100			120	100	120		150	
Max. AC Charging Current	[A]	60		80	100				120	150
Max. Charging Current	[A]	100			120	100	120	120	150	
OTHERS										
Operating Temperature Range	[°C]	0~+40								
Storage Temperature Range	[°C]	-15~+60								
Operating Altitude	[m]	No more than 1000m, If 1000m, Rate power will lower, MAX 4000m								
Noise	[dB]	≤50								
Protection Class		IP21								
LCD Interface		Lcd Already, Led Touch Screen Optional								
RS232		5PIN/Pitch2.54mm, Baud Rate 2400								
Expansion Slot Communication		2 × 5PIN/Pitch2.54mm, Lithium battery BMS communication card, WIFI, etc								
Parallel Interface		Not Support Parallel				Support Parallel				
Size (WxHxD)	[mm]	395*285*118	495*312*125						570.8*500*148.2	
Weight	[Kg]	7	11	11.2	11.2	11.8	12	12	22.3	22.5
Warranty		2 years								
STANDARD										
		EN IEC 61000-6-4:2019/ EN 61000-3-12:2011/ EN IEC 61000-3-11:2019/ EN IEC 61000-6-2:2019/ EN 62109-1:2010(IEC 62109-1:2010)/ EN 62109-2:2011(IEC 62109-2:2011)/ IEC 61683:2000								
Compatible Batteries		Austa; Pylontech;Voltronic,Growatt								