

LOW VOLTAGE RESIDENTIAL SERIES

SINGLE-PHASE HYBRID INVERTER

AU7/7.6/8/10KESL-G3



Up to 1.5 times input



200% Back-up Overload



Waterproof grade IP66



Power supply can be switched
automatically and switching
time within 10ms

Max
18

The maximum current of
a single string module is 18A



Maximum 6 single-phase
units parallel

Technical Specification

		AU7KESL-G3	AU7.6KESL-G3	AU8KESL-G3	AU10KESL-G3
PV INPUT					
Max. DC Input Power	[W]	10500	11400	12000	15000
Max. DC Input Voltage	[V]		500		
Start-Up Voltage	[V]		125		
MPPT Voltage Range	[V]		150~425		
Nominal Input Voltage	[V]		370		
Max. Input Short-Circuit Current	[A]		34+34		
Max. Operating PV Input Current	[A]		28+28		
Number Of MPP Trackers			2		
Strings Per MPP Tracker			2+2		
AC INPUT/OUTPUT DATA					
Nominal AC Output Power	[W]	7000	7600	8000	10000
Max. AC Output Apparent Power	[VA]	7700	8360	8800	11000
Max. AC Input/Output Current	[A]	60.9/33.5	66.1/36.3	69.6/38.3	69.6/47.8
Nominal AC Output Current	[A]	30.4	33.0	34.8	43.5
Nominal AC Voltage	[V]		220/230/240		
Nominal Grid Frequency	[Hz]		50/60		
THDi (Rated Power)	[%]		<3		
Displacement Power Factor			0.8 leading~0.8 lagging		
BATTERY PARAMETERS					
Battery Type			Lead-acid or Lithium-ion		
Voltage Range	[V]		40~60		
Max. Charge/Discharge Current	[A]	170	180	190	210
Number of Battery Input			1		
Charging Strategy for Li-ion Battery			Self-adaption to BMS		
EQUIPMENT PROTECTION					
Integrated		DC Polarity Reverse Connection Protection, AC Output Overcurrent Protection,AC Output Overvoltage Protection, AC Output Short Circuit Protection, Thermal Protection,DC Terminal Insulation Impedance Monitoring, Dc Component Monitoring, Ground Fault Current Monitoring,Power Network Monitoring, Island Protection Monitoring, Earth Fault Detection, DC input Switch Overvoltage Load Drop Protection, Residual Current Detection (RCD), Surge protection level,Groundfault circuit interrupter (GFCI)			
Surge Protection Leve		TYPE II(DC), TYPE II(AC)			
EPS (OFF-GRID OR BACK-UP) OUTPUT (WITH BATTERY)					
Nominal Output Power	[W]	7000	7600	8000	10000
Peak Apparent Power	[VA]	14000(20s)	15200(20s)	16000(20s)	20000(20s)
Max.Continuous Current	[A]	30.4	33.0	34.8	43.5
Continuous Voltage	[V]		230		
Nominal Grid Frequency	[Hz]		50/60		
Switch Time	[ms]		<10		
Parallel Operation			Yes		
SYSTEM DATA					
Max. Efficiency	[%]		97.6		
MPPT Efficiency	[%]		>99		
Euro. Efficiency	[%]		96.5		
Ingress Protection			IP66		
Operating Temperature Range	[°C]		-40~+60 (Derating above +45)		
Max. Operating Altitude	[m]		<3000		
Typical Noise Emission	[dB]		<30		
Storage Temperature Range	[°C]		-40~+65		
Over Voltage Category			OVC II(DC), OVC III(AC)		
Dimensions (W×H×D)	[mm]		420*505*236		
Net Weight	[kg]		29		
Cooling Type			Intelligent Air Cooling		
Communication Interfaces			RS485/CAN/WiFi/LAN&4G (Optional)		
AFCI Fault Protection			Optional		
STANDARD					
Safety Standard/EMC Standard		EN IEC 61000-6-3:2021	EN IEC 61000-6-2:2019	EN 61000-3-12:2011/A1:2024	EN IEC 61000-3-11:2019 IEC 62109-1:2010, IEC 62109-2:2011
Grid-Connected Standard		EN 50549-1:2019+A1:2023	EN 50549-10:2022	EN 50549-1_A	
Compatible Batteries			Pylontech;Austa		