

LOW VOLTAGE RESIDENTIAL SERIES

SINGLE-PHASE HYBRID INVERTER

AU3/3.6/4/5/6/8KESL-G2



Up to 1.5 times input



Waterproof grade IP66

Max
18

The maximum current of
a single string module is 18A



200% Back-up Overload



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



Maximum 6 single-phase
units parallel

Technical Specification

	AU3KESL -G2	AU3.6KESL -G2	AU4KESL -G2	AU5KESL -G2	AU6KESL -G2	AU8KESL -G2	
PV INPUT							
Max.DC Input Power [W]	4500	4800	6000	7500	9000	12000	
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]			23+23				34+34
Max. Operating PV Input Current [A]			18+18				28+28
Number Of MPP Trackers			2				
Strings Per MPP Tracker			1+1				2+2
AC INPUT/OUTPUT DATA							
Nominal AC Input/Output Power [W]	3000	3600	4000	5000	6000	8000	
Max. Input/Output Apparent Power [VA]	3300	3960	4400	5500	6600	8800	
Max. AC Input Current [A]	13.6	16.4	18.2	22.7	27.3	36.4	
Max. AC Output Current [A]	13	15.7	17.4	21.7	26.1	34.8	
Output Voltage [V]			220/230/240				
AC Input Voltage Range [V]			80-300				
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]	75	90	100	120	135	190	
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]	3000	3600	4000	5000	6000	8000	
Peak Apparent Power [VA]	6000	7200	8000	10000	12000	16000	
Max.Continuous Current [A]	13	15.7	17.4	21.7	26.1	34.8	
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]			28.5				
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	
Grid-Connected Standard	IEC 62109-1:2010, IEC 62109-2:2011 EN 50549-1:2019+A1:2023 EN 50549-10:2022 EN 50549-1_A						
Compatible Batteries	Pylontech;Austa						