

LOW VOLTAGE RESIDENTIAL SERIES

AU3-8KESL-G2 SINGLE-PHASE HYBRID INVERTER



High Performance

- Max. efficiency up to 97.6%
- 125 V startup voltage
- 150% DC oversizing supported
- Max. string input current up to 18 A



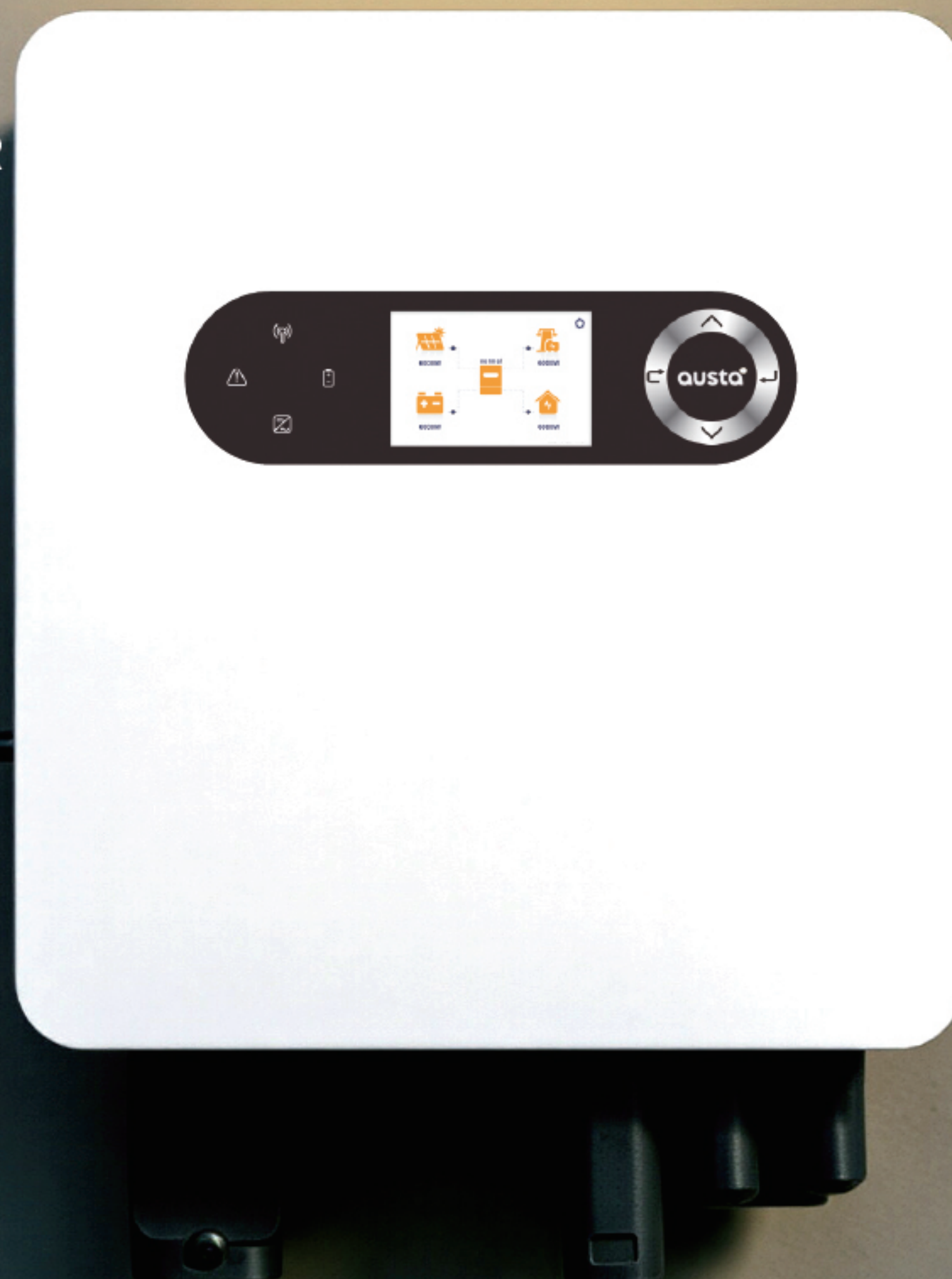
Stable and Reliable Operation

- IP66 protection rating
- Automatic transfer time < 10 ms



Flexible System Design

- Up to 6 units in parallel



2times
Up to
times input



97.6%
Max
efficiency



IP66
ingress
protection



<10ms
EPS
switch time

Technical Specification

		AU3KESL -G2	AU3.6KESL -G2	AU4KESL -G2	AU5KESL -G2	AU6KESL -G2	AU8KESL -G2
PV INPUT							
Max.DC Input Power	[W]	6000	7200	8000	10000	12000	16000
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 Level					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 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					