HIGH VOLTAGE SYSTEM
RESIDENTIAL SERIES

AU4-15KETH
THREE-PHASE HYBRID INVERTER

High Performance

- Max. efficiency up to 98.4%
- 160 V startup voltage
- Compatible with high-current modules (18 A)
- Supports 150% DC oversizing

Stable and Reliable Operation

- Transfer time < 10 ms
- THD < 2%
- Supports 110% three-phase unbalanced output

Flexible Design

- Parallel connection supported
- Off-grid switching capability
- Dry contact generator start supported

110% three-phase unbalanced output | 1.5 Max times pv input | IP66 Protection Level | <10ms switch time

Technical Specification

	AU4KETH	AU5KETH	AU6KETH	AU8KETH	AU10KETH	AU12KETH	AU15KETH
PV INPUT							
Max.DC Input Power [W]	6000	7500	9000	12000	15000	18000	22500
Max. DC Input Voltage [V]	1000						
Rated DC Input Voltage [V]	620						
Start-Up Voltage [V]	160						
MPPT Voltage Range [V]	160-950						
Max. Input Current [A]	18/36						
Max. Short Circuit Current [A]	23/46						
Number Of MPP Trackers	2						
Strings Per MPP Tracker	1/1			1/2			
AC INPUT							
Rated Input Voltage [V]	400/380,3L/N/PE						
Max. Input Power [W]	8000	10000	12000	16000	20000	24000	30000
Max. Input Current [A]	12.2	15.2	18.2	24.3	30.3	36.4	45.5
AC OUTPUT_GRID							
Rated Output Power [W]	4000	5000	6000	8000	10000	12000	15000
Max. Output Apparent Power [VA]	4400	5500	6600	8800	11000	13200	16500
Rated Output Voltage [V]	400/380,3L/N/PE						
Rated Output Frequency [Hz]	50/60						
Max. Output Current [A]	6.7	8.3	10	13.3	16.5	20	25
THDi	<2%						
Output Power Factor	adjustable +/-0.8						
AC OUTPUT_OFF GRID							
AC Output (Backup) [V]	400/380						
Rated Output Frequency [Hz]	50/60						
Rated Output Power [W]	4000	5000	6000	8000	10000	12000	15000
Max. Output Current [A]	6.1	7.6	9.1	12.1	15.2	18.2	22.7
THDv	3%						
Switch Time [ms]	<10						
BATTERY PARAMETERS							
Battery Type	Lithium						
Voltage Range [V]	160-700						
Max. Charge/Discharge Power [W]	4000/4000	5000/5000	6000/6000	8000/8000	10000/10000	12000/12000	15000/15000
Max. Charge/Discharge Current [A]	30/30						
EFFICIENCY							
MPPT Efficiency	99.9%						
Max. Efficiency	97.9%		98%	98.2%		98.44%	
Euro. Efficiency	96.8%		97.1%	97.2%		97.44%	
PROTECTION							
Integrated	Isolation Device On The Input Side,Protection Against Island Operation,DC reverse Polarity Protection,Monitoring The Condition Of Insulation,DC Surge Protector,AC Surge Protector,Residual Current Monitoring (RCMU),AC Overcurrent Protection,AC Short Circuit Protection,Protection Against Island Operation,Protection Against Electric Arc,Remote Control Receiver, Protection Against Charging The Battery From The Grid						
OTHER PARAMETER							
Operating Temperature Range [°C]	-25~+60						
Storage Temperature Range [°C]	-30~+65						
Humidity Range	0-95%						
Operating Altitude [m]	<3000						
Ingress Protection	IP66						
Topology	transformerless						
Parallel Mode	Intergrated, max 10pcs						
Communication	WiFi / RS485/ CAN (BMS)						
Display	LCD						
Cooling Method	Natural					Fan	
Size (W×H×D) [mm]	520 * 400 * 230						
Weight [kg]	28						
Safety & EMC	EN IEC 61000-6-3:2021EN IEC 61000-6-2:2019EN 61000-3-12:2011EN 61000-3-11:2019;IEC 62109-1:2010,EN 62109-1:2010, IEC 62109-2:2011,EN 62109-2:2011						
Grid Connection Standard	EN 50549-1:2019;IEC 62477-1:2022,EN 62477-1:2023;DIN VDE V 0124-100;VDE-AR-N 4105;CEI 021/016, NC RFG 2016-04; PSE 2018-12;CEI 0-21:2022-03						
Compatible Batteries	AUSTA Lih5/7.5/10/12.5/15Kwh; Pylontech Force H1/H2(-V2) Powercube X1/X2/H1/H2(-V2)						