

INVERTER HYBRID SINGLE-PHASE

REMOTE

Assistant*

BACKUP

Integrated function

10

Years warranty



AURA

Balance and consistency in energy

*The factory, in collaboration with partners across the national territory, can connect to the unit for remote updates and system monitoring.

The algorithm managing the energy flows between load, grid, and battery is part of the core logic and continuous development of the AURA program.

MODEL	AURA 4.6 K-H	AURA 5.0 K-H	AURA 6.0 K-H
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ENVIRONMENTAL CONFIGURATION

Max. Efficiency (PV to AC)	97.3%	97.3%	97.3%
Max. Efficiency (BAT to AC)	94.3%	94.3%	94.3%

PV INPUT DATA

Max PV Input Power	9000w	9000w	9000w
Max PV Voltage	550v	550v	550v
Max input component (input A / input B)	15A/15A	15A/15A	15A/15A
Max Input Current per MPPT (input A / input B)	20A/20A	20A/20A	20A/20A
Start-up Voltage	90v	90v	90v
MPPT Voltage Range	70v - 540v	70v - 540v	70v - 540v
Number of MPPTs	2	2	2
Strings per MPPT	1	1	1

BATTERY INPUT DATA

Battery Type	Lithium-ion (AURA ACC)	Lithium-ion (AURA ACC)	Lithium-ion (AURA ACC)
Nominal Battery Voltage	48v	48v	48v
Battery Voltage Range	40v - 65v	40v - 65v	40v - 65v
Max. Charge/Discharge Current	120A/120A	120A/120A	120A/120A
Max. Charge/Discharge Power	6000W/6000W	6000W/6000W	6000W/6000W
Lithium Battery Charging Curve	BMS Auto-Adaptation	BMS Auto-Adaptation	BMS Auto-Adaptation

AC OUTPUT DATA

Nominal AC Output Power	4600W	5000W	6000W
Max. AC Output Power	4600VA	5000VA	6000VA
Max. AC Output Power (PF=1)	4600VA	5000VA	6000VA
Max. AC Output Current	22A	25A	27.2A
Nominal Grid Voltage	230V, L+N+PE	230V, L+N+PE	230V, L+N+PE
Grid Voltage Range	150V-300V (Adjustable)	150V-300V (Adjustable)	150V-300V (Adjustable)
Nominal Grid Frequency	50Hz / 60Hz	50Hz / 60Hz	50Hz / 60Hz
Grid Frequency Range	45Hz-55Hz/55Hz-65Hz (In accordance with local network standards)		
Grid Connection	Single-phase	Single-phase	Single-phase
Power Factor	> 0.99 nominal power (Regolabile 0.8 LD - 0.8 LG)		
Total harmonic distortion	<3% (Nominal power)	<3% (Nominal power)	<3% (Nominal power)

*The output voltage and frequency range may vary depending on local regulations. Specifications are subject to change without prior notice.

* Backup power output depends on the number and type of batteries as well as the system's status (temperature, residual capacity).

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OUTPUT (BACKUP)

Nominal AC output power	4600W	5000W	6000W
Maximum Apparent AC Output Power	20A	21,7A	26A
Maximum AC Output Power (PF=1)	9200VA	10000VA	12000VA
Maximum AC output current	230V, L+N+PE	230V, L+N+PE	230V, L+N+PE
Nominal voltage	50Hz / 60Hz	50Hz / 60Hz	50Hz / 60Hz
Voltage range	10ms (typ) / 20ms (max)	10ms (typ) / 20ms (max)	10ms (typ) / 20ms (max)
Nominal network frequency	<3% 100% R load	<3% 100% R load	<3% 100% R load

PROTECTION

Protection Category	Class I	Class I	Class I
DC Switch	Supported	Supported	Supported
Anti-Islanding Protection	Supported	Supported	Supported
AC Overcurrent Protection	Supported	Supported	Supported
AC Short Circuit Protection	Supported	Supported	Supported
DC Reverse Polarity Protection	Supported	Supported	Supported
DC/AC Overvoltage Protection	DC Type III, AC Type III	DC Type III, AC Type III	DC Type III, AC Type III
Insulation Resistance Detection	Supported	Supported	Supported
Leakage Current Protection	Supported	Supported	Supported
PV Surge Protection Category	II	II	II
AC Surge Protection Category	III	III	III

GENERAL TECHNICAL DATA

Max. Operating Altitude	4000m	4000m	4000m
Noise Level	<35dB	<35dB	<35dB
Ingress Protection Degree (IP Rating)	IP65	IP65	IP65
Operating Temperature Range	-25 ~ 60	-25 ~ 60	-25 ~ 60
Relative Humidity	0 ~ 100%	0 ~ 100%	0 ~ 100%
Cooling Method	Natural agreement	Natural agreement	Natural agreement
Mounting Method	Wall-mounted	Wall-mounted	Wall-mounted
Dimensions (W*H*D)	515mm*485mm*175mm	515mm*485mm*175mm	515mm*485mm*175mm
Weight	25Kg	25Kg	25Kg
PV Connection Type	MC4/H4	MC4/H4	MC4/H4

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HMI & COM

Display	LED+APP	LED+APP	LED+APP
Communication Interface	RS485/CAN (for BMS), RS485, USB, DRM/RS485 (per il Meter), Optional: WiFi/GPRS/LAN		

CERTIFICATION

Grid	VDE-AR-N4105, IEC 61727/62116, AS 4777.2, EN 50549-1, C10/11, G99, CEI 0-21, NRS 097-2-1, RD 1699/661/413		
Safety	IEC62109-1 &2, IEC62477-1	IEC62109-1 &2, IEC62477-1	IEC62109-1 &2, IEC62477-1
Warranty	10 YEARS	10 YEARS	10 YEARS

COMPANY CERTIFICATIONS

ISO 9001:2015 Quality Management	KIWA
ISO 14001:2015 Environmental Management	KIWA
ISO 45001:2018 Occupational Health and Safety Management	KIWA
Factory Inspection Attestation Photovoltaic (PV) Panels	KIWA

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Technical specifications are subject to continuous updates and may change at any time without prior notice.
 Please verify warranty conditions and validity directly with the company at the time of purchase.