

## Hybrid inverter AX 1ph specification



a-TroniX Hybrid Power AX 1ph	3.0kW	3.7kW	4.6kW	5.0kW	6.0kW
item number	9890450	9890451	9890452	9890453	9890454
<b>PV input</b>					
Max. input power (kW)	A: 2.25   B: 2.25 A: 2.75   B: 2.75 A: 3.45   B: 3.45 A: 3.75   B: 3.75 A: 4.5   B: 4.5				
Switch-on voltage (V)	75				
Max. DC input voltage (V)	600				
Rated DC input voltage (V)	360				
MPPT voltage range (V)	80 - 550				
Number of MPP trackers	2				
Number of PV inputs Max.	1/1				
input current (A)	16/16				
Max. short-circuit current (A)	20/20				
<b>battery</b>					
Battery type	Lithium battery (LFP)				
Battery communication mode	CAN				
Battery voltage range (V DC)	80 - 480				
Max. charge/discharge current (A)	40				
<b>Output (mains)</b>					
Max. AC input power (VA)	6000	7680	9200	10000	12000
Ma. AC input current (per phase) (A)	27.3	34.9	41.8	45.5	54.5
AC rated power (W)	3000	3680	4600	5000	6000
Max. AC power (VA)	3300	4080	4600	5500	6600
Rated output current (per phase) (A)	13	16	20	21.7	26.1
Max. output current (A)	15	18.4	23	25	30
Rated output voltage (Vac)	220/230/240				
Power factor / reactive power factor (cos phi)	1 (adjustment range from 0.8 cap to 0.8 ind)				
Total Harmonic Distortion (THDi) (%)	< 3 @ rated power				
<b>Output (backup)</b>					
Max. AC power (VA)	3000	3680	4600	5000	6000
Max. AC power (60s) (VA)	3600	4400	5500	6000	7200
UPS Max. Current (A) (Per Phase) (A)	13.6	16.7	20.9	22.7	27.3
UPS rated voltage (V)	220/230/240				
Rated mains frequency (Hz)	50/60				
Power factor / reactive power factor (cos phi)	1 (adjustment range from 0.8 kap to 0.8 ind)				
Total Harmonic Distortion (THDv) (Linear Load) (%)	< 2 @ rated power				
Switching time (ms)	<20				

# Technical data sheet

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item number	9890450	9890451	9890452	9890453	9890454
<b>Efficiency</b>					
Max. efficiency %	97.01%	97.08%	97.04%	97.28%	97.08%
European efficiency %	95.26%	95.70%	96.23%	96.30%	96.33%
<b>Security</b>					
Insulation monitoring	Integrated				
Residual current monitoring	Integrated				
DC reverse polarity protection	Integrated				
Anti-islanding protection	Integrated				
AC short circuit protection	Integrated				
AC output overcurrent protection/ Overvoltage protection	Integrated				
DC switch (only for hybrid)	Integrated				
overvoltage protection (SPD)	DC: type II, AC: type III				
<b>General data</b>					
installation	Wall mounted				
Dimensions (mm) W x H x D	434*418*185				
Weight (kg)	22				
topology	Transformerless				
Cooling	Natural cooling				
Normal noise emission (dB)	35				
Max. operating altitude (m)	2000				
Operating temperature range (°C)	-25 - +60				
Humidity (%)	0 - 100				
Protection class (according to IEC 60529)	IP65				
Own consumption (night) (W)	< 15				
communication	Wifi, LAN(optional), 4G (optional)				
Interfaces	RS485, DRM, Ripple Control, USB				
Advertisement	LCD, app, website				
Certificates	VDE-AR-N 4105:2018; EU 2016/631(RfG); CEI0-21:2022; CE-LVD 2014/35EU;				
	CE EMC 2014/30 EU; RoHS Directive 2011/65/EU; REACH 1907/2006/EC				

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**AKKU SYS** Accumulator and Battery Technology Nord GmbH

Connection path 23 · 25469 Halstenbek · GERMANY

Telephone +49 4101 37676-0 · Fax +49 4101 85475-66 · info@akkusys.de · www.akkusys.de · akkusys.shop