

Hybrid Inverter AX 1ph

Specifications



α-TroniX Hybridpower AX 1ph	3.0 kW	3.7 kW	4.6 kW	5.0 kW	6.0 kW
Order number	9890450	9890451	9890452	9890453	9890454
PV input					
Max. input power (kW)	3.9	4.7	5.98	6.5	7.8
Switch-on voltage (V)	100				
Max. DC Input voltage (V)	600				
Nominal DC input voltage (V)	360				
MPPT voltage range (V)	80 ~ 550				
Number of MPP trackers	2				
Number of PV inputs	1 / 1				
Max. input current (A)	13.5 / 13.5				
Max. short circuit current (A)	15 / 15				
Battery					
Battery type	Lithium battery (LiFePO4)				
Battery Communication mode	CAN / RS485				
Battery voltage range (V DC)	85 ~ 450				
Max. charge/discharge current (A)	40				
Output (grid)					
Max. AC input power (VA)	7000	7680	9600	10000	12000
Max. AC input current (per phase) (A)	31.8	34.9	43.6	45.5	54.5
AC nominal power (W)	3000	3680	4600	5000	6000
Max. AC power (VA)	3300	4080	5060	5500	6600
Nominal output current (per phase) (A)	13	16	20	21.7	26.1
Max. output current (A)	14.3	17.6	22	23.9	28.7
Nominal output voltage (Vac)	220 / 230 / 240				
Power factor / reactive power factor (cos phi)	1 (setting range from 0.8 kap to 0.8 ind)				
Distortion factor (THDi) (%)	< 3 @ Nominal power				
Ausgang (Backup)					
Max. AC power (VA)	5000		6000		
Max. AC power (60s) (VA)	6000		7200		
UPS max. current (A) (per phase) (A)	21.7		26.1		
UPS nominal voltage (V)	220 / 230 / 240				
Nominal mains frequency (Hz)	50 / 60				
Power factor / reactive power factor (cos phi)	1 (setting range from 0.8 kap to 0.8 ind)				
Distortion factor (THDv) (linear load) (%)	< 2 @ Nominal power				
Switching time (ms)	< 20				

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Efficiency					
Max. efficiency (%)	97.8 %				
European efficiency (%)	97 %				
Safety					
Insulation monitoring	integrated				
Residual current monitoring	integrated				
DC reverse polarity protection	integrated				
Anti-islanding protection	integrated				
AC short-circuit protection	integrated				
AC output overcurrent / overvoltage protection	integrated				
DC switch (only for hybrid)	integrated				
Surge protection (SPD)	DC: Typ II. AC: Typ III				
General data					
Black-start capability	from 1 BMS + 2 batteries onwards				
Installation	wall-mounted				
Dimensions (mm) W x H x D	430 x 410 x 178				
Weight (kg)	23				
Topology	fan				
Cooling	natural cooling				
Normal noise emission (dB)	35				
Max. Operating height (m)	2000				
Operating temperature range (°C)	-25 ~ +60				
Humidity (%)	0 ~ 100				
Protection class (according to IEC 60529)	IP65				
Own consumption (night) (W)	< 10				
Communication	Wifi, LAN, 4G, GPRS (optional), externally via dongle				
Interfaces	2 x RS485, DRM, Ripple Control, USB				
Display	LCD, app, website				
Certificates	VDE-AR-N 4105:2018; EU2016/631(RfG) CEI 0-21:2022; Tor producer type A; CE-LVD 2014/35EU;				
	CE-EMC 2014/30 EU; RoHS Directive 2011/65/EU; REACH 1907/2006/EC				

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