

Hybrid Inverter AX3ph



Specifications

a-TroniX Hybridpower AX3ph	5 kW	6 kW	8 kW	10 kW	12 kW
Order number	9890427	9890446	9890447	9890448	9890449
PV input					
Max. input power (kW)	A: 4,0 B: 4,0	A: 4,5 B: 4,5	A: 8,0 B: 5,0	A: 8,0 B: 5,0	A: 9,0 B: 6,0
Switch-on voltage (V)	160				
Max. DC Input voltage (V)	1000				
Nominal DC input voltage (V)	720				
MPPT voltage range (V)	160 ~ 950				
Number of MPP trackers	2				
Number of PV inputs	1 / 1		2 / 1		
Max. input current (A)	14 / 14		26 / 14		
Max. short circuit current (A)	16 / 16		32 / 16		
Battery					
Battery type	Lithium battery (LiFePO4)				
Battery Communication mode	CAN / RS485				
Battery voltage range (V DC)	135 ~ 600				
Max. charge/discharge current (A)	26.0				
Output (grid)					
Max. AC input power (VA)	10000	12000	16000	16000	16000
Max. AC input current (per phase) (A)	15.2	18.2	24.2	24.2	24.2
AC nominal power (W)	5000	6000	8000	10000	12000
Max. AC power (VA)	5500	6600	8800	11000	13200
Nominal output current (per phase) (A)	7.2	8.7	11.6	14.5	17.4
Max. output current (A)	8.8	10.6	14.1	17.6	21.2
Nominal output voltage (Vac)	3L/N/PE 380/2200; 400/230; 415/240				
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	8000	10000	12000
Max. AC power (60s) (VA)	10000	12000	14000	15000	15000
UPS max. current (A) (per phase) (A)	7.2	8.7	11.6	14.5	17.4
UPS nominal voltage (V)	3L/N/PE 400/230				
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) (%)	< 3 @ Nominal power				
Switching time (ms)	< 20				

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Efficiency					
Max. efficiency (%)	98 %				
European efficiency (%)	97.3 %				
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)	integrated				
AFCI Protection	integrated				
General data					
Black-start capability	from 1 BMS + 2 batteries onwards				
Installation	wall-mounted				
Dimensions (mm) W x H x D	449 x 519 x 198				
Weight (kg)	28				
Topology	transformerless				
Cooling	natural cooling			fan	
Normal noise emission (dB)	35			45	
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; G98-1 Amd7:2022; Tor producer type A; EN50549-1:2019 CE-LVD 2014/35/EU; CE-EMC 2014/30/EU; Rohs Directive 2011/65/EU				

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