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three phase hybrid inverter

H3

Tested and supported (1st/2nd line) by taylor.

Pre-made battery, meter and taylor.gateway cable to reduce installation time

Compatible with taylor and third party EMS providers

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Models	H3-5.0-E		H3-6.0-E		H3-8.0-E		H3-10.0-E		H3-12.0-E	
Input PV (only for hybrid)										
Max. input power (W)	A:6500 B:4000		A:6500 B:4000		A:8000 B:5000		A:8000 B:5000		A:8000 B:5000	
Max. input voltage (V)					1000 ¹					
Start-up input voltage (V)					160					
Rated input voltage (V)					720					
MPPT operating voltage range (V)					160 ~ 950					
Max. input current (A)	14/14		14/14		26/14		26/14		26/14	
Max. short circuit current (A)	16/16		16/16		32/16		32/16		32/16	
No. of independent MPP trackers					2					
No. of strings per MPP tracker	1/1		1/1		2/1		2/1		2/1	
Battery connection										
Battery type					Lithium battery (LFP)					
Battery voltage (V)					180 ~ 600 ²					
Max. charge / discharge current (A)					26.0					
Communication interface					CAN (communicate with inverter), RS485 (upgrade BMS)					
AC input and 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	
Rated output power (W)	5000		6000		8000		10000		12000	
Max. output apparent power (VA)	5500		6600		8800		11000		13200	
Rated output current (per phase) (A)	7.2		8.7		11.6		14.5		17.4	
Max. output current (A)	8.0		9.6		12.8		16.0		19.2	
Rated grid voltage (V)					3L / N / PE 380 / 220; 400 / 230; 415 / 240					
Rated grid frequency (Hz)					50 / 60					
Power factor					1 (adjustable from 0.8 leading to 0.8 lagging)					
THDi (%)					< 3 @rated power					
EPS output										
Max. output apparent power (VA)	5000		6000		8000		10000		12000	
Peak output apparent power (60s) (VA)	10000		12000		14000		15000		15000	
Max. output current (per phase) (A)	15.2		18.2		21.2		22.7		22.7	
Rated output voltage (V)					3L / N / PE 400 / 230					
Rated output frequency (Hz)					50 / 60					
Power factor					1 (adjustable from 0.8 leading to 0.8 lagging)					
THDv (@linear load) (%)					< 3 @rated power					
Switch time (ms)					< 20					
Efficiency										
Euro efficiency (%)	97.20		97.20		97.30		97.30		97.30	
Max. efficiency (%)	97.80		97.80		98.00		98.00		98.00	
Max. battery charge efficiency (PV to BAT) (@full load) (%)					98.50					
Max. battery discharge efficiency (BAT to AC) (@full load) (%)					97.00					
Protection										
Insulation monitoring					Yes					
Residual current monitoring					Yes					
DC reverse-polarity protection					Yes					
Anti-islanding protection					Yes					
AC short-circuit protection					Yes					
AC overcurrent/overvoltage protection					Yes					
DC switch					Yes					
SPD					DC: type II / AC: type III					
AFCI					Optional					
General data										
Dimensions (W x H x D) (mm)					449 x 519 x 198					
Weight (kg)					28					
Installation					Wall-mounted					
Topology					Transformerless					
Cooling method			Natural				Fan cooling			
Noise emission (dB)			35				45			
Max. operating altitude (m)					2000					
Operating temperature range (°C)					-25 ~ 60					
Humidity (no condensation) (%)					0 ~ 100					
Ingress protection					IP65					
Standby consumption (W)					< 15					
Monitoring module					Via taylor.gateway					
Communication					2 x RS485, DRM, Ripple Control, USB					
Display					LCD, app, website					
Standard compliance (more available upon request)										
Safety					EN 62109-1, EN 62109-2, EN 62477-1					
EMC					IEC 61000-6-1, IEC 61000-6-3					
Grid regulation					EN50549-1, C10 / 11, VDE-AR-N 4105, G98, CEI 0-21					
Warranty										
Product Warranty					10 years (backed by FOX ESS)					

¹ For 1000V system, PV maximum operating voltage is 950V

² Min. operation battery voltage is 150V