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PRODUCED BY

FOX ESS

three phase hybrid inverter

P3 Pro

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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Datasheet
P3 Pro

Models	P3-Pro-15.0	P3-Pro-20.0	P3-Pro-25.0	P3-Pro-30.0
PV input (only for hybrid)				
Max. array Power (Wp)	30000	40000	50000	60000
Max. recommended DC power (W)[1]	7500/7500/7500	10000/10000/10000	12500/12500/12500	15000/15000/15000
Max. DC voltage (V)[2]	1000			
Nominal DC operating voltage (V)	750			
Max. input current (A)	16+16/16+16/16+16			
Max. short circuit current (A)	20+20/20+20/20+20			
MPPT voltage range (V)	150 ~ 850			
MPPT voltage range (full load) (V)	170 ~ 850	230 ~ 850	280 ~ 850	340 ~ 850
Start-up voltage (V)	160			
No. of MPP trackers	3			
No. of strings per MPP tracker	2 / 2 / 2			
Max. inverter backfeed current to the array	0			
Battery				
Battery type	Lithium battery			
Battery voltage (V)	150 ~ 800			
Full AC load battery voltage(V)	160 ~ 790	220 ~ 790	270 ~ 790	330 ~ 790
Max. charge / discharge current (A)	50 + 50			
Number of battery input	2			
Communication interface	CAN			
AC input and output				
Max. AC input power (VA)	22500	10000/10000/10000	35000	35000
Max. AC input current (per phase) (A)	34.1	45.5	53.0	53.0
Nominal AC output power (VA)	15000	20000	25000	30000
Max. apparent AC output power (VA)	16500	22000	27500	33000
Rated AC Current (per phase) (A)	22.7	30.3	37.9	45.5
Max. AC Current (per phase) (A)	25.0	33.3	41.7	50.0
Rated grid voltage (AC voltage range) (V)	400 / 230 ; 380 / 220 , 3L / N / PE			
Rated grid frequency (Hz)	50 / 60 , ±5			
Power factor	1 (adjustable from 0.8 leading to 0.8 lagging)			
Export control	Yes			
THDi (%)	< 3 @rated power			
EPS output				
Max. apparent AC power (VA)	15000	20000	25000	30000
Peak apparent AC power (60s) (VA)	18000	24000	30000	36000
Rated output voltage (V)	400 / 230 ; 380 / 220, 3L / N / PE			
Rated grid frequency (Hz)	50 / 60			
EPS max. current (per phase) (A)	22.7	30.0	37.9	45.5
Power factor	1 (adjustable from 0.8 leading to 0.8 lagging)			
Parallel operation	Yes @ max 10 PCS			
Switch time (ms)	< 20			
THDV (%)	< 3 @ rated power			
Efficiency				
MPPT efficiency (%)	99.90	99.90	99.90	99.90
Max. efficiency (%)	97.20	97.20	97.10	97.10
Max. battery to AC efficiency (%)	97.20	97.20	97.10	97.10
Max. PV to battery efficiency (%)	98.10	98.10	98.10	98.10
Euro efficiency (%)	96.30	96.30	96.60	96.60

Protection			
PV reverse polarity protection	Yes	Reverse connect protection	Yes
Battery reverse protection	Yes	Over-current protection / over-temperature protection	Yes
Anti-islanding protection	Yes	AC/DC surge protection	Type II / Type II
Output short protection	Yes	AFCI protection	Optional
Leakage current protection	Yes	DC switch	Optional
Insulation resistor detection	Yes	String monitoring function	Optional
Over voltage category	III (AC side) , II (DC side)		

General data				
Dimensions (W x H x D) (mm)	600 x 560 x 225			
Dimensions of packaging (W x H x D) (mm)	720 x 680 x 370			
Net weight (kg)	52.5			
Gross weight (kg)	57.5			
Installation	Wall-mounted			
Operating temperature range (°C)	-25 ~ +60 (derating at 45)			
Storage temperature (°C)	-40 ~ +70			
Noise emision (typical) (dB)	< 45	< 45	< 55	< 55
Storage / operation relative humidity (%)	0 ~ 95 (without condensation)			
Altitude (m)	< 4000			
Protective class	I			
Ingress protection	IP65 (for outdoor use)			
Standby consumption (W)	200 for hot standby, 20 for cold standby			
Standby mode	Yes			
Cooling	Smart fan cooling			
Inverter topology	Non-isolated			
Communication interface	Meter, WIFI, 4G(Optional), DRM, USB, BMS(CAN), RS485, Ethernet, SG ready			
Button	Capacitive touch sensor x4			
Buzzer	1, inside (EPS & earth fault)			

Standard compliance (more available upon request)	
Safety	EN 62109-1, EN 62109-2
EMC	IEC 61000-6-2, IEC 61000-6-3

Warranty	
Product Warranty	10 years (backed by FOX ESS)

[1] Per MPP max. PV input power 15kW.
[2] For 1000V system, maximum operating voltage is 950V. PV input voltage greater than 955V, PV overvoltage error will be reported.

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