



# P3 PRO

THREE-PHASE **HYBRID INVERTER**



## HIGH VOLTAGE

Includes high-voltage batteries for maximum round-trip efficiency.



## EASY INSTALLATION

Flexible configuration, plug and play set-up, built-in fuse protection.



## IP65 RATED

Engineered to last with maximum flexibility. Suitable for outdoor installation.



## REMOTE MONITORING

Monitor your system remotely via smartphone app or web portal.



Advanced System Monitoring  
with **FoxCloud V2.0**

REFINED – POWERFUL – FLEXIBLE

Harness the power of the sun day and night with the ground-breaking range of Hybrid inverter from Fox ESS. Full of advanced features and compatible with our very own range of high-voltage batteries, the hybrid range from Fox ESS.

15kW ...>> 30kW



For more information about the Fox ESS range, visit:  
[www.fox-ess.com](http://www.fox-ess.com)



up to  
**30kW**  
charge/  
discharge

TECHNICAL SPECIFICATIONS

| MODEL                                               | 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] <sup>[1]</sup>        | 7500/7500/7500 | 10000/10000/10000                                                        | 12500/12500/12500 | 15000/15000/15000 |
| Max. DC Voltage [V] <sup>[2]</sup>                  |                |                                                                          | 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 [V] (full load)                  | 170 ~ 850      | 230 ~ 850                                                                | 280 ~ 850         | 340 ~ 850         |
| Start-up Voltage [V]                                |                |                                                                          | 160               |                   |
| No. of MPP Trackers                                 |                |                                                                          | 3                 |                   |
| 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 OUTPUT                                           |                |                                                                          |                   |                   |
| Nominal AC Power [VA]                               | 15000          | 20000                                                                    | 25000             | 30000             |
| Max. Apparent AC Power [VA]                         | 16500          | 22000                                                                    | 27500             | 33000             |
| Rated Grid Voltage (AC Voltage Range) [VAC]         |                | 400 / 230 ; 380 / 220 , 3L / N / PE                                      |                   |                   |
| Rated Grid Frequency [Hz]                           |                | 50 / 60 , ±5                                                             |                   |                   |
| Rated AC Current [A] (Per Phase)                    | 22.7           | 30.3                                                                     | 37.9              | 45.5              |
| Max. AC Current [A] (Per Phase)                     | 25.0           | 33.3                                                                     | 41.7              | 50.0              |
| Power Factor                                        |                | 1(Adjustable from 0.8 Leading to 0.8 Lagging)                            |                   |                   |
| Export Control                                      |                |                                                                          | YES               |                   |
| THDI [%]                                            |                |                                                                          | <3 @Rated Power   |                   |
| AC INPUT                                            |                |                                                                          |                   |                   |
| Max. AC Power [VA]                                  | 22500          | 30000                                                                    | 35000             | 35000             |
| Rated Grid Voltage (AC Voltage Range) [V]           |                | 400 / 230 ; 380 / 220 , 3L / N / PE                                      |                   |                   |
| Rated Grid Frequency [Hz]                           |                | 50 / 60 , ±5                                                             |                   |                   |
| Max. AC Current [A] (Per Phase)                     | 34.1           | 45.5                                                                     | 53.0              | 53.0              |
| Power Factor                                        |                | 1(Adjustable from 0.8 Leading to 0.8 Lagging)                            |                   |                   |
| EPS OUTPUT                                          |                |                                                                          |                   |                   |
| Max. Apparent AC Power [VA]                         | 15000          | 20000                                                                    | 25000             | 30000             |
| Peak Apparent AC Power [VA] (60s)                   | 18000          | 24000                                                                    | 30000             | 36000             |
| Rated Output Voltage [V]                            |                | 400 / 230 ; 380 / 220 , 3L / N / PE                                      |                   |                   |
| Rated Grid Frequency [Hz]                           |                | 50 / 60                                                                  |                   |                   |
| EPS Max. Current [A] (Per Phase)                    | 22.7           | 30.3                                                                     | 37.9              | 45.5              |
| Power Factor                                        |                | 1(Adjustable from 0.8 Leading to 0.8 Lagging)                            |                   |                   |
| Parallel Operation                                  |                |                                                                          | Yes @Max10PCS     |                   |
| Switch Time [ms]                                    |                |                                                                          | <10               |                   |
| 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             |
| European Efficiency [%]                             | 96.30          | 96.30                                                                    | 96.60             | 96.60             |
| PROTECTION                                          |                |                                                                          |                   |                   |
| PV Reverse Polarity Protection                      |                |                                                                          | YES               |                   |
| Battery Reverse Protection                          |                |                                                                          | YES               |                   |
| Anti-Islanding Protection                           |                |                                                                          | YES               |                   |
| Output Short Protection                             |                |                                                                          | YES               |                   |
| Leakage Current Protection                          |                |                                                                          | YES               |                   |
| Insulation Resistor Detection                       |                |                                                                          | YES               |                   |
| Overvoltage Category                                |                | III (AC Side) , II (DC Side)                                             |                   |                   |
| Reverse Connect Protection                          |                |                                                                          | YES               |                   |
| Overcurrent Protection / Overtemperature Protection |                |                                                                          | YES               |                   |
| AC/DC Surge Protection                              |                |                                                                          | Type II/Type II   |                   |
| AFCI Protection                                     |                |                                                                          | Optional          |                   |
| DC Switch                                           |                |                                                                          | Optional          |                   |
| String Monitoring Function                          |                |                                                                          | Optional          |                   |
| GENERAL DATA                                        |                |                                                                          |                   |                   |
| Dimensions (W*H*D) [mm]                             |                | 600*560*225                                                              |                   |                   |
| Dimension of Packing (W*H*D) [mm]                   |                | 720*680*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                                                                |                   |                   |
| Storage/Operation Relative Humidity [%]             |                | 0 ~ 95 (No 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                                                        |                   |                   |
| Noise Grade [dB]                                    | <45            | <45                                                                      | <55               | <55               |
| Inverter Topology                                   |                | Non-isolated                                                             |                   |                   |
| Communication Interface                             |                | Meter, WiFi, 4G(Optional), DRM, USB, BMS(CAN), RS485, Ethernet, SG ready |                   |                   |
| Button                                              |                | Capacitive Touch Sensor *4                                               |                   |                   |
| 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                                             |                   |                   |

\*More technical characteristics are available on demand and customized.  
[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.