



# H3 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                                               | H3-Pro-15.0    | H3-Pro-20.0       | H3-Pro-24.9       | H3-Pro-25.0                                          | H3-Pro-29.9       | H3-Pro-30.0       |
|-----------------------------------------------------|----------------|-------------------|-------------------|------------------------------------------------------|-------------------|-------------------|
| PV INPUT(ONLY FOR HYBRID)                           |                |                   |                   |                                                      |                   |                   |
| Max. Array Power [Wp]                               | 30000          | 40000             | 50000             | 50000                                                | 60000             | 60000             |
| Max. Recommended DC Power [W] <sup>[1]</sup>        | 7500/7500/7500 | 10000/10000/10000 | 12500/12500/12500 | 12500/12500/12500                                    | 15000/15000/15000 | 15000/15000/15000 |
| Max. DC Voltage [V] <sup>[2]</sup>                  |                |                   |                   | 1000                                                 |                   |                   |
| Nominal DC Operating Voltage [V]                    |                |                   |                   | 750                                                  |                   |                   |
| Max. Input Current [A]                              |                |                   |                   | 32                                                   |                   |                   |
| Max. Short Circuit Current [A]                      |                |                   |                   | 40                                                   |                   |                   |
| MPPT Voltage Range [V]                              |                |                   |                   | 150 ~ 850                                            |                   |                   |
| MPPT Voltage Range [V] (full load)                  | 170 ~ 850      | 230 ~ 850         | 280 ~ 850         | 280 ~ 850                                            | 340 ~ 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         | 270 ~ 790                                            | 330 ~ 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             | 24900             | 25000                                                | 29900             | 30000             |
| Max. Apparent AC Power [VA]                         | 16500          | 22000             | 24900             | 27500                                                | 29900             | 33000             |
| Rated Grid Voltage (AC Voltage Range) [VAC]         |                |                   |                   | 400 / 230 ; 380 / 220 , 3L / N / PE                  |                   |                   |
| Rated Grid Frequency [Hz]                           |                |                   |                   | 50 / 60 , ±5                                         |                   |                   |
| Max. AC Current [A] (Per Phase)                     | 25.0           | 33.3              | 37.7              | 41.7                                                 | 45.4              | 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                                                | 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                                                 | 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             | 25000                                                | 30000             | 30000             |
| Peak Apparent AC Power [VA] (60s)                   | 18000          | 24000             | 30000             | 30000                                                | 36000             | 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              | 37.9                                                 | 45.5              | 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                                                | 99.90             | 99.90             |
| Max. Efficiency [%]                                 | 97.80          | 97.80             | 97.80             | 97.80                                                | 97.80             | 97.80             |
| Max. Battery to AC Efficiency [%]                   | 97.60          | 97.60             | 97.60             | 97.60                                                | 97.60             | 97.60             |
| Max. PV to Battery Efficiency [%]                   | 98.10          | 98.10             | 98.10             | 98.10                                                | 98.10             | 98.10             |
| European Efficiency [%]                             | 97.30          | 97.40             | 97.40             | 97.40                                                | 97.40             | 97.40             |
| 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 , 18 for Cold Standby            |                   |                   |
| Standby Mode                                        |                |                   |                   | YES                                                  |                   |                   |
| Cooling                                             |                |                   |                   | Smart FAN Cooling                                    |                   |                   |
| Noise Grade [dB]                                    | <45            | <45               | <60               | <60                                                  | <60               | <60               |
| Inverter Topology                                   |                |                   |                   | Non-isolated                                         |                   |                   |
| Communication Interface                             |                |                   |                   | Meter, WIFI, 4G(optional), DRM, USB, BMS(CAN), RS485 |                   |                   |
| 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.