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PRODUCED BY



**three phase  
hybrid inverter**

**H3 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

H3 Pro



| Models                                            | 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)                            | 160 ~ 850                                             |      |                       |  |                                                       |      |                       |  |                       |      |                       |  |
| MPPT voltage range (full load) (V)                | 170 ~ 850                                             |      | 230 ~ 850             |  | 280 ~ 850                                             |      | 280 ~ 850             |  | 340 ~ 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                                             |      | 270 ~ 790             |  | 330 ~ 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                                                 |      | 30000                 |  | 35000                                                 |      | 35000                 |  | 35000                 |      | 35000                 |  |
| Max. AC input current (per phase) (A)             | 34.1                                                  |      | 45.5                  |  | 53.0                                                  |      | 53.0                  |  | 53.0                  |      | 53.0                  |  |
| Normal AC output power (VA)                       | 15000                                                 |      | 20000                 |  | 24900                                                 |      | 25000                 |  | 29900                 |      | 30000                 |  |
| Max. apparent AC output power (VA)                | 16500                                                 |      | 22000                 |  | 24900                                                 |      | 27500                 |  | 29900                 |      | 33000                 |  |
| Rated AC Current (per phase) (A)                  | 22.73                                                 |      | 30.30                 |  | 37.72                                                 |      | 37.88                 |  | 45.30                 |      | 45.45                 |  |
| Max. AC Current (per phase) (A)                   | 25.0                                                  |      | 33.3                  |  | 37.7                                                  |      | 41.7                  |  | 45.4                  |      | 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                                                 |      | 25000                 |  | 30000                 |      | 30000                 |  |
| Peak apparent AC power (60s) (VA)                 | 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 (per phase) (A)                  | 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 @ max 10 PCS                                      |      |                       |  |                                                       |      |                       |  |                       |      |                       |  |
| Switch time (ms)                                  | < 20                                                  |      |                       |  |                                                       |      |                       |  |                       |      |                       |  |
| THDV (%)                                          | < 3 @ rated power                                     |      |                       |  |                                                       |      |                       |  |                       |      |                       |  |
| Efficiency                                        |                                                       |      |                       |  |                                                       |      |                       |  |                       |      |                       |  |
| MPPT efficiency (%)                               | 99.90                                                 |      | 99.90                 |  | 99.90                                                 |      | 99.90                 |  | 99.90                 |      | 99.90                 |  |
| Max. efficiency (%)                               | 97.20                                                 |      | 97.20                 |  | 97.10                                                 |      | 97.10                 |  | 97.10                 |      | 97.10                 |  |
| Max. battery to AC efficiency (%)                 | 97.20                                                 |      | 97.20                 |  | 97.10                                                 |      | 97.10                 |  | 97.10                 |      | 97.10                 |  |
| Max. PV to battery efficiency (%)                 | 98.10                                                 |      | 98.10                 |  | 98.10                                                 |      | 98.10                 |  | 98.10                 |      | 98.10                 |  |
| Euro efficiency (%)                               | 96.30                                                 |      | 96.30                 |  | 96.60                                                 |      | 96.30                 |  | 96.30                 |      | 96.30                 |  |
| 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 emission (typical) (dB)                     | < 45                                                  | < 45 |                       |  | < 55                                                  | < 55 |                       |  | < 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, 18 for cold standby              |      |                       |  |                                                       |      |                       |  |                       |      |                       |  |
| Idle mode                                         | Yes                                                   |      |                       |  |                                                       |      |                       |  |                       |      |                       |  |
| Cooling                                           | Smart fan cooling                                     |      |                       |  |                                                       |      |                       |  |                       |      |                       |  |
| Inverter topology                                 | Non-isolated                                          |      |                       |  |                                                       |      |                       |  |                       |      |                       |  |
| Communication interface                           | Meter, WiFi, 4G (optional), DRM, USB, BMS(CAN), RS485 |      |                       |  |                                                       |      |                       |  |                       |      |                       |  |
| LCD display                                       | Backlight 16 x 4 character                            |      |                       |  |                                                       |      |                       |  |                       |      |                       |  |
| 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)                          |      |                       |  |                                                       |      |                       |  |                       |      |                       |  |

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