

# ENNEC1K0100U

30kW 1000V power module



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## Product information

- Galvanic insulation
- Certification TUV CE/UL, KC
- Wide range of output voltage, 150-1000VDC, appropriate for wide range of electric vehicles
- Super Denoise mode can reduce noise of the fan to lower than 55 dB
- Internal, intelligent discharge circuit – automatically discharges residual charge, simplifying construction of the system
- Low power consumption in the standby mode, 12W. At a super stand by – power consumption is 2W.
- 3 phases without neutral wire eliminate the risk of high neutral currents
- 3-phase correction of the active power factor technology, reducing harmonic disturbances in the network
- Wide range of input voltage, 260 ~ 530VAC
- Wide range of operating temperatures; -40°C --+75°C

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## Safety

- TUV CE and certification; EN61851-21-2, class A

## Technical specification

|   | Parameter                           | Unit | Value  |
|---|-------------------------------------|------|--|
| <b>Input side</b>                                   | Frequency range                     | Hz   | 45 - 65  |
|   | Input voltage range                 | V    | 3L+PE, 260-530 (AC)  |
|   | Power factor                        | -    | 0.99   |
|   | Maximum input current               | A    | 58   |
|   | ITHD                                | %    | ≤ 5  |
|   | Efficiency (top)                    | %    | ≥ 95, @ 348-500V / 680-1000VDC / 60% - 100% load current, Maximum point ≥95.5% |
| <b>Output side</b>                                  | Output power                        | kW   | 30 @voltage>300V DC  |
|   | Voltage range                       | VDC  | 150-1000   |
|   | Actual range                        | A    | 0 - 100  |
|   | Actual sharing                      | A    | < ± 1  |
|   | Voltage stabilization               | %    | < ± 0,5  |
|   | Current stabilization               | %    | ≤ ± 1 (output power in 20% ~ 100%)   |
| <b>Environmental/<br/>mechanical<br/>parameters</b> | Temperature of the surrounding      | °C   | -40 ~ +75, parameters decrease to 55   |
|   | Storage temperature                 | °C   | - 40 ~ +70   |
|   | Humidity                            | %    | ≤ 95, RH, no condensation  |
|   | Cooling                             |      | Fan  |
|   | Height                              | m    | 2000   |
|   | Weight                              | kg   | ≤ 22,5   |
|   | Dimensions: height x width x length | mm   | 110 x 385 x 395  |

|                           | Technical data                       | Specification  |
|---------------------------|--------------------------------------|--|
| <b>Control</b>            | Communication                        | CAN Bus, Max 48 modules powered in parallel  |
|                           | Signal lamp                          | Green LED diode: normal work, yellow LED diode: alarm, red alarm diode: malfunction  |
|                           | Indication of the address            | Automatic identification of the address, panel selection switch to group set   |
|                           | Noise settings                       | Power mode with a maximum volume of 75 dB, denoise mode with a maximum volume of 65 dB, silent mode with a maximum volume of 60 dB |
|                           | Super Standby                        | 12V or 5V external control   |
| <b>Alarm and security</b> | Input/output voltage protection      | Automatically shuts down and locks, in order to restart and unlock switching off the device is required                            |
|                           | Overcurrent/short-circuit protection | Automatically shuts down and locks, in order to restart and unlock switching off the device is required                            |
|                           | Overheating protection               | Automatic shutdown, automatic restart after temperature returns back to normal   |
| <b>EMC/EMI</b>            | Certificate TUV CE                   | EN61851-21-2, class B  |
| <b>Safety</b>             | Certificate TUV UL/CE                | UL2202, EN61851-1, EN61851-23  |
| <b>Reliability</b>        | MTBF                                 | >30000h  |

\* the manufacturer reserves the right to make changes to the parameters and appearance of the product