



## SINGLE PHASE ON-GRID PV INVERTER

### FEATURES

- VDE-AR-N 4105 & VDE 0126-1-1/A1 & PEA & MEA Certificate
- >97.9 % Conversion Efficiency
- Integrated DC Switch, Data Logger, Web Server
- RCR ( Ripple Control Receiver, German model )
- Ethernet and Optional Wi-Fi
- Cloud Web Portal
- Die-cast Enclosure
- Made In TAIWAN

# SPECIFICATIONS

| Item                                  | Scale | PV-3000N-V   | PV-5000W-V                 | PV-5000W-HV        |
|---------------------------------------|-------|--|----------------------------|--------------------|
| <b>Input (DC)</b>                     |       |  |                            |                    |
| MPPT Working Range                    | V     | 100 ~ 580  | 100 ~ 580                  | 180 ~ 980          |
| MPPT Range ( Full Load )              | V     | 315 ~ 500  | 290 ~ 500                  | 550 ~ 800          |
| Start-Up Voltage                      | V     | 130  | 150                        | 260                |
| Max. Voltage                          | V     | 580  | 580                        | 980                |
| Max. Current                          | A     | 10   | 10 x 2                     | 10                 |
| Max. Short Circuit Current Isc        | A     | 15   | 15 x 2                     | 14                 |
| MPP Tracker No.                       |       | 1  | 2                          | 1                  |
| <b>Output (AC)</b>                    |       |  |                            |                    |
| Nominal Power                         | W     | 3000   | 5000 / 4600 <sup>* 1</sup> |                    |
| Nominal Voltage/Frequency             | V     | 220/230/240; 50/60 Hz  |                            |                    |
| Maximum Current                       | A     | 14.3   | 23.8 / 21.9 <sup>* 1</sup> |                    |
| <b>Efficiency</b>                     |       |  |                            |                    |
| Max. Efficiency                       | %     | 97.2   | 97.2                       | 97.9               |
| Euro- Eta                             | %     | 96.4   | 96.1                       | 97.4               |
| <b>General</b>                        |       |  |                            |                    |
| Temp. Range                           | °C    | -20 ~ 55   |                            | -25 ~ 60           |
| Topology                              |       | Transformerless  |                            |                    |
| Protection                            |       | IP65   |                            |                    |
| Humidity                              | %     | 0 ~ 100  |                            |                    |
| Cooling                               |       | Convection   |                            |                    |
| <b>Features</b>                       |       |  |                            |                    |
| LCD                                   |       | 1602 Character Display   |                            |                    |
| RS485                                 |       | Standard, Half-duplex  |                            |                    |
| Wi-Fi                                 |       | Optional by USB dongle ( specified by manufacturer )               |                            |                    |
| Data Logging                          |       | Yes  |                            |                    |
| <b>Mechanical</b>                     |       |  |                            |                    |
| W x H x D                             | mm    | 330 x 375 x 196  | 418 x 485 x 196            | 330 x 383 x 218    |
| Weight                                | kg    | 12   | 22                         | 15                 |
| Input Pairs                           |       | 1  | 2                          | 1                  |
| DC Switch                             |       | Built-in   |                            |                    |
| <b>Certification &amp; Regulation</b> |       |  |                            |                    |
| Grid Monitoring                       |       | VDE 0126-1-1/A1, VDE-AR-N 4105, G83/2, G59/3, PEA, MEA, NB/T 32004 |                            |                    |
| Safety                                |       | IEC 62109-1, IEC 62109-2   |                            |                    |
| EMC Emission                          |       | EN 61000-6-3/-4  | EN 61000-6-3/-4            | EN 61000-6-3/-4    |
|                                       |       | EN 61000-3-2   | EN 61000-3-11              | EN 61000-3-11      |
|                                       |       | EN 61000-3-3   | EN 61000-3-12              | EN 61000-3-12      |
|                                       |       | AS/NZS 61000.6.3/4   | AS/NZS 61000.6.3/4         | AS/NZS 61000.6.3/4 |
| EMC Immunity                          |       | EN 61000-6-2   |                            |                    |

<sup>\* 1</sup> For VDE 4105

\* Specifications are subject to change without prior notice

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