



- Maximum string current of 20A
- Wide range of MPPT voltage
- Max. 150% DC/AC ratio
- Max. efficiency 98.6%
- Optional AFCI function
- Max. IP66 protection

| AON-3011-60                                       |                                                                |
|---------------------------------------------------|----------------------------------------------------------------|
| <b>Input DC</b>                                   | 45-58V                                                         |
| Maximum power                                     | 330W                                                           |
| Maximum voltage                                   | 1100V                                                          |
| Rated voltage                                     | 420V                                                           |
| Start-up voltage                                  | 100V                                                           |
| MPPT voltage range                                | 150-1000V                                                      |
| Maximum current                                   | 40A/33A/30A                                                    |
| Maximum input current                             | 55A/45A/40A                                                    |
| MPPT number                                       | 3                                                              |
| Max. input string number                          | 4                                                              |
| <b>Output AC</b>                                  |                                                                |
| Rated output power                                | 330W                                                           |
| Maximum output power                              | 330VA                                                          |
| Max output power                                  | 330W                                                           |
| Rated grid voltage                                | 220V/230V/240V/50/60Hz                                         |
| Grid voltage range                                | 220V/230V/240V/50/60Hz                                         |
| Grid frequency                                    | 50/60Hz                                                        |
| Rated grid frequency                              | 50/60Hz                                                        |
| Rated grid output current                         | 43.1A                                                          |
| Max output current                                | 47.4A                                                          |
| Power factor                                      | 150W loading > 0.99 lagging                                    |
| THD                                               | < 3%                                                           |
| <b>Efficiency</b>                                 |                                                                |
| Max efficiency                                    | 98.65%                                                         |
| EU efficiency                                     | 98.20%                                                         |
| MPPT efficiency                                   | 99.80%                                                         |
| <b>Protection</b>                                 |                                                                |
| Integrated DC switch                              | Yes                                                            |
| DC over-voltage protection                        | Yes                                                            |
| Anti-islanding protection                         | Yes                                                            |
| Short circuit protection                          | Yes                                                            |
| Output over current protection                    | Yes                                                            |
| DC surge protection                               | Type II                                                        |
| AC surge protection                               | Type II                                                        |
| Insulation impedance detection                    | Yes                                                            |
| Ground fault monitoring                           | Yes                                                            |
| Residual leakage current detection                | Yes                                                            |
| Temperature protection                            | Yes                                                            |
| AC over-current protection                        | Yes                                                            |
| DC over-current protection                        | Optional                                                       |
| String monitoring                                 | Optional                                                       |
| 24-hour fault monitoring                          | Optional                                                       |
| Integrated AFCI (DC arc-fault circuit protection) | Optional                                                       |
| Integrated PID recovery                           | Optional                                                       |
| Anti-backflow                                     | Optional                                                       |
| <b>General Data</b>                               |                                                                |
| Dimensions (W*H*V)                                | 520*410*118mm                                                  |
| Weight                                            | 24.5kg                                                         |
| Self-heating time (night)                         | < 1s                                                           |
| Operating temperature range                       | -30 ~ +45℃                                                     |
| Cooling concept                                   | Nat. convection                                                |
| Max. operation altitude                           | 4000m (Derating above 3000m)                                   |
| Relative humidity                                 | 0-95%                                                          |
| Types protection                                  | IP65                                                           |
| Topology structure                                | Transformerless                                                |
| Grid connection standard                          | IEC 61000, EN 50575, IEC 61727, IEC 62116, IEC 61683, VDE 4105 |
| Tyding EMC standard                               | EN IEC61000-4-1/2/3/4, EN IEC61000-3-11, EN 61000-3-2          |
| Type of DC terminal                               | MC4 connector                                                  |
| Type of AC terminal                               | DT terminal                                                    |
| <b>Display/Communication</b>                      |                                                                |
| Display                                           | LED+Bluetooth+APP (Optional LCD)                               |
| Communication Interface                           | RS485, Cellular (4G/LAN)                                       |