

# Microinverter



## X1-Micro 4 in 1

1300 W / 1500 W / 1600 W / 1800 W  
2000 W / 2200 W / 2400 W



### High Efficiency

- Max. 2400VA output power
- Max. 19.5A DC input current
- Four MPPT channels



### Assured Safety

- Rapid Shutdown function
- Safety protection relay integrated
- IP67 ingress protection



### Intelligent Design

- Reactive power control
- Built-in industrial grade WiFi module
- Easy to install and maintain



### Flexible Adaptability

- Easy and flexible expansion of system capacity
- Support AC coupling solution
- Support 1-phase microinverter integration into 3-phase power grid

| PV INPUT                             |                                                                                                                     |                                                 |                                                 |                                                 |                                                 |                                                  |                                                    |
|--------------------------------------|---------------------------------------------------------------------------------------------------------------------|-------------------------------------------------|-------------------------------------------------|-------------------------------------------------|-------------------------------------------------|--------------------------------------------------|----------------------------------------------------|
| Commonly used module power per input | 300 ~ 505+ W                                                                                                        | 320 ~ 540+ W                                    | 360 ~ 600+ W                                    | 400 ~ 600+ W                                    | 400 ~ 670+ W                                    | 450 ~700+ W                                      | 500 ~ 750+ W                                       |
| Max. PV input voltage                | 60 V                                                                                                                |                                                 |                                                 |                                                 |                                                 |                                                  |                                                    |
| MPPT voltage range                   | 22 ~ 60 V                                                                                                           |                                                 |                                                 |                                                 |                                                 |                                                  |                                                    |
| Start up voltage                     | 20 V                                                                                                                |                                                 |                                                 |                                                 |                                                 |                                                  |                                                    |
| Max. PV input current                | 4 × 12 A                                                                                                            | 4 × 14 A                                        | 4 × 15 A                                        | 4 × 16 A                                        | 4 × 18 A                                        | 4 × 19.5 A                                       | 4 × 19.5 A                                         |
| Max. input short circuit current     | 4 × 20 A                                                                                                            | 4 × 20 A                                        | 4 × 20 A                                        | 4 × 25 A                                        | 4 × 25 A                                        | 4 × 25 A                                         | 4 × 25 A                                           |
| No. of MPP trackers                  | 4                                                                                                                   |                                                 |                                                 |                                                 |                                                 |                                                  |                                                    |
| Strings per MPP tracker              | 1                                                                                                                   |                                                 |                                                 |                                                 |                                                 |                                                  |                                                    |
| AC OUTPUT                            |                                                                                                                     |                                                 |                                                 |                                                 |                                                 |                                                  |                                                    |
| Rated AC output power                | 1300 VA                                                                                                             | 1500 VA                                         | 1600 VA                                         | 1800 VA                                         | 2000 VA                                         | 2200 VA                                          | 2400 VA                                            |
| Max. continuous output power         | 1300 VA                                                                                                             | 1500 VA                                         | 1600 VA                                         | 1800 VA                                         | 2000 VA                                         | 2200 VA                                          | 2400 VA                                            |
| Max. continuous output current       | 5.91 A @220 V<br>5.66 A @230 V<br>5.42 A @240 V                                                                     | 6.82 A @220 V<br>6.53 A @230 V<br>6.25 A @240 V | 7.28 A @220 V<br>6.96 A @230 V<br>6.67 A @240 V | 8.19 A @220 V<br>7.83 A @230 V<br>7.50 A @240 V | 9.10 A @220 V<br>8.70 A @230 V<br>8.34 A @240 V | 10.00 A @220 V<br>9.57 A @230 V<br>9.17 A @240 V | 10.91 A @220 V<br>10.43 A @230 V<br>10.00 A @240 V |
| Rated grid voltage                   | 220 / 230 / 240 V                                                                                                   |                                                 |                                                 |                                                 |                                                 |                                                  |                                                    |
| Rated AC voltage range               | 180 ~ 264 V                                                                                                         |                                                 |                                                 |                                                 |                                                 |                                                  |                                                    |
| Rated AC frequency                   | 50 Hz / 60 Hz                                                                                                       |                                                 |                                                 |                                                 |                                                 |                                                  |                                                    |
| AC frequency / range                 | 50 ± 5 Hz / 60 ± 5 Hz                                                                                               |                                                 |                                                 |                                                 |                                                 |                                                  |                                                    |
| Max. units per 10AWG branch*         | 4@220 V<br>4@230 V<br>5@240 V                                                                                       | 4@220 V<br>4@230 V<br>4@240 V                   | 4@220 V<br>4@230 V<br>4@240 V                   | 3@220 V<br>3@230 V<br>3@240 V                   | 3@220 V<br>3@230 V<br>3@240 V                   | 3@220 V<br>3@230 V<br>3@240 V                    | 2@220 V<br>2@230 V<br>3@240 V                      |
| Max. units per 12AWG branch*         | 3@220 V<br>3@230 V<br>4@240 V                                                                                       | 3@220 V<br>3@230 V<br>3@240 V                   | 3@220 V<br>3@230 V<br>3@240 V                   | 2@220 V<br>2@230 V<br>3@240 V                   | 2@220 V<br>2@230 V<br>2@240 V                   | 2@220 V<br>2@230 V<br>2@240 V                    | 2@220 V<br>2@230 V<br>2@240 V                      |
| Power factor range                   | ~ 1 (0.8 leading...0.8 lagging)                                                                                     |                                                 |                                                 |                                                 |                                                 |                                                  |                                                    |
| THDi (rated power)                   | < 3%                                                                                                                |                                                 |                                                 |                                                 |                                                 |                                                  |                                                    |
| EFFICIENCY                           |                                                                                                                     |                                                 |                                                 |                                                 |                                                 |                                                  |                                                    |
| Max. efficiency                      | 96.50%                                                                                                              |                                                 |                                                 |                                                 |                                                 |                                                  |                                                    |
| MPPT efficiency                      | 99.90%                                                                                                              |                                                 |                                                 |                                                 |                                                 |                                                  |                                                    |
| Power consumption (night)            | < 40 mW                                                                                                             |                                                 |                                                 |                                                 |                                                 |                                                  |                                                    |
| STANDARD                             |                                                                                                                     |                                                 |                                                 |                                                 |                                                 |                                                  |                                                    |
| Safety                               | IEC62109                                                                                                            |                                                 |                                                 |                                                 |                                                 |                                                  |                                                    |
| EMC                                  | IEC 61000, EN 62920, EN 301489, EN 55011                                                                            |                                                 |                                                 |                                                 |                                                 |                                                  |                                                    |
| Certifications                       | IEC 61727, IEC 62116, EN 50549, VDE 4105, UNE217001, UNE217002, RD244/647, NTS Version 2.1 TYPE A, INMETRO, PEA/MEA |                                                 |                                                 |                                                 |                                                 |                                                  |                                                    |
| ENVIRONMENT LIMIT                    |                                                                                                                     |                                                 |                                                 |                                                 |                                                 |                                                  |                                                    |
| Ingress protection                   | IP67                                                                                                                |                                                 |                                                 |                                                 |                                                 |                                                  |                                                    |
| Operation temperature range          | -40 ~ 75°C                                                                                                          |                                                 |                                                 |                                                 |                                                 |                                                  |                                                    |
| Relative humidity                    | 0 ~ 100% RH (condensing)                                                                                            |                                                 |                                                 |                                                 |                                                 |                                                  |                                                    |
| Storage temperature                  | -40 ~ 75°C                                                                                                          |                                                 |                                                 |                                                 |                                                 |                                                  |                                                    |
| GENERAL                              |                                                                                                                     |                                                 |                                                 |                                                 |                                                 |                                                  |                                                    |
| Dimensions (W x H x D)               | 322 × 242 × 48.5 mm                                                                                                 |                                                 |                                                 |                                                 |                                                 |                                                  |                                                    |
| Weight                               | 6.2 kg                                                                                                              |                                                 |                                                 |                                                 |                                                 |                                                  |                                                    |
| Cooling concept                      | Natrual cooling                                                                                                     |                                                 |                                                 |                                                 |                                                 |                                                  |                                                    |
| Communication                        | Built-in WiFi                                                                                                       |                                                 |                                                 |                                                 |                                                 |                                                  |                                                    |
| Monitoring                           | SolaXCloud                                                                                                          |                                                 |                                                 |                                                 |                                                 |                                                  |                                                    |

\* Refer to local requirements for exact number of microinverters per branch

## Communication Diagram

