




# GEP 5-10kW

Single-phase | 3 MPPTs

GEP5.0-1C-10

GEP8.5-1-10

GEP10-1-10


 3 MPPTs

 13A Per String

 Compatible with High Power Modules

 Inbuilt DC Isolator

 Inbuilt Export Control

 Smart Shadow Scan

The GEP 5-10kW is the ultimate solution to cater for the residential segment's rising expectations. This powerful single-phase model boasts 3 MPPTs for maximum power retention and absolute minimum power loss. With a startup voltage of only 80V, this superior, intelligently efficient inverter is specifically designed to harness solar power from sunrise to sunset regardless of irradiation and weather conditions. Extra reflections from the backside of bifacial panels drive the inverter to its maximum capacity and un-leash its full potential of 200% DC oversizing, allowing for up to 110% AC overloading. All these features intelligently packed into a light-weight model for a comfortable installation.



# GEP 5-10kW

3 MPPTs | Single-phase

| Technical Data                          | GEP5.0-1C-10                                    | GEP8.5-1-10        | GEP10-1-10         |
|---|---|--------------------|--------------------|
| <b>Input</b>                            |   |                    |                    |
| Max. Input Power (W)                    | 10000   | 13500              | 13500              |
| Max. Input Voltage (V)                  | 600   | 600                | 600                |
| MPPT Operating Voltage Range (V)        | 80~550  | 80~550             | 80~550             |
| Start-up Voltage (V)                    | 80  | 80                 | 80                 |
| Nominal Input Voltage (V)               | 360   | 360                | 360                |
| Max. Input Current per MPPT (A)         | 13/13/13  | 13/13/13           | 13/13/13           |
| Max. Short Circuit Current per MPPT (A) | 16.3/16.3/16.3                                  |                    |                    |
| Number of MPPTs                         | 3   | 3                  | 3                  |
| Number of Strings per MPPT              | 1   | 1                  | 1                  |
| <b>Output</b>                           |   |                    |                    |
| Nominal Output Power (W)                | 5000  | 8500               | 10000              |
| Nominal Output Apparent Power (VA)      | 5000  | 8500               | 10000              |
| Max. AC Apparent Power (VA)             | 5500  | 9350               | 10000              |
| Nominal Output Voltage (V)              | 220/230   | 220/230            | 220/230            |
| Nominal AC Grid Frequency (Hz)          | 50/60   | 50/60              | 50/60              |
| Max. Output Current (A)                 | 23.9  | 42.5               | 45.5               |
| Nominal Output Current (A)              | 21.7  | 37                 | 43.5               |
| Output Power Factor                     | ~1 (Adjustable from 0.8 leading to 0.8 lagging) |                    |                    |
| Max. Total Harmonic Distortion          | <3%   | <3%                | <3%                |
| <b>Efficiency</b>                       |   |                    |                    |
| Max. Efficiency                         | 97.7%   | 97.8%              | 97.8%              |
| European Efficiency                     | 97.3%   | 97.5%              | 97.5%              |
| <b>Protection</b>                       |   |                    |                    |
| Residual Current Monitoring Unit        | Integrated                                      | Integrated         | Integrated         |
| DC Reverse Polarity Protection          | Integrated                                      | Integrated         | Integrated         |
| Anti-islanding Protection               | Integrated                                      | Integrated         | Integrated         |
| AC Overcurrent Protection               | Integrated                                      | Integrated         | Integrated         |
| AC Short Circuit Protection             | Integrated                                      | Integrated         | Integrated         |
| AC Overvoltage Protection               | Integrated                                      | Integrated         | Integrated         |
| DC Surge Arrester                       | Integrated (Type II)                            |                    |                    |
| AC Surge Arrester                       | Integrated (Type II)                            |                    |                    |
| <b>General Data</b>                     |   |                    |                    |
| Operating Temperature Range (°C)        | -25~60  | -25~60             | -25~60             |
| Relative Humidity                       | 0~100%  | 0~100%             | 0~100%             |
| Max. Operating Altitude (m)             | ≤4000   | ≤4000              | ≤4000              |
| Cooling Method                          | Natural Convection                              | Natural Convection | Natural Convection |
| Display                                 | LCD&LED   | LCD&LED            | LCD&LED            |
| Communication                           | Wi-Fi / RS485 / LAN (Optional)                  |                    |                    |
| Weight (kg)                             | 22.5  | 22.5               | 22.5               |
| Dimension (W × H × D mm)                | 511 × 415 × 175                                 |                    |                    |
| Topology                                | Transformerless                                 |                    |                    |
| Night Power Consumption (W)             | <1  | <1                 | <1                 |
| Ingress Protection Rating               | IP65  | IP65               | IP65               |
| Country of Manufacture                  | China   | China              | China              |

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