



# Intelligent Solar Inverters

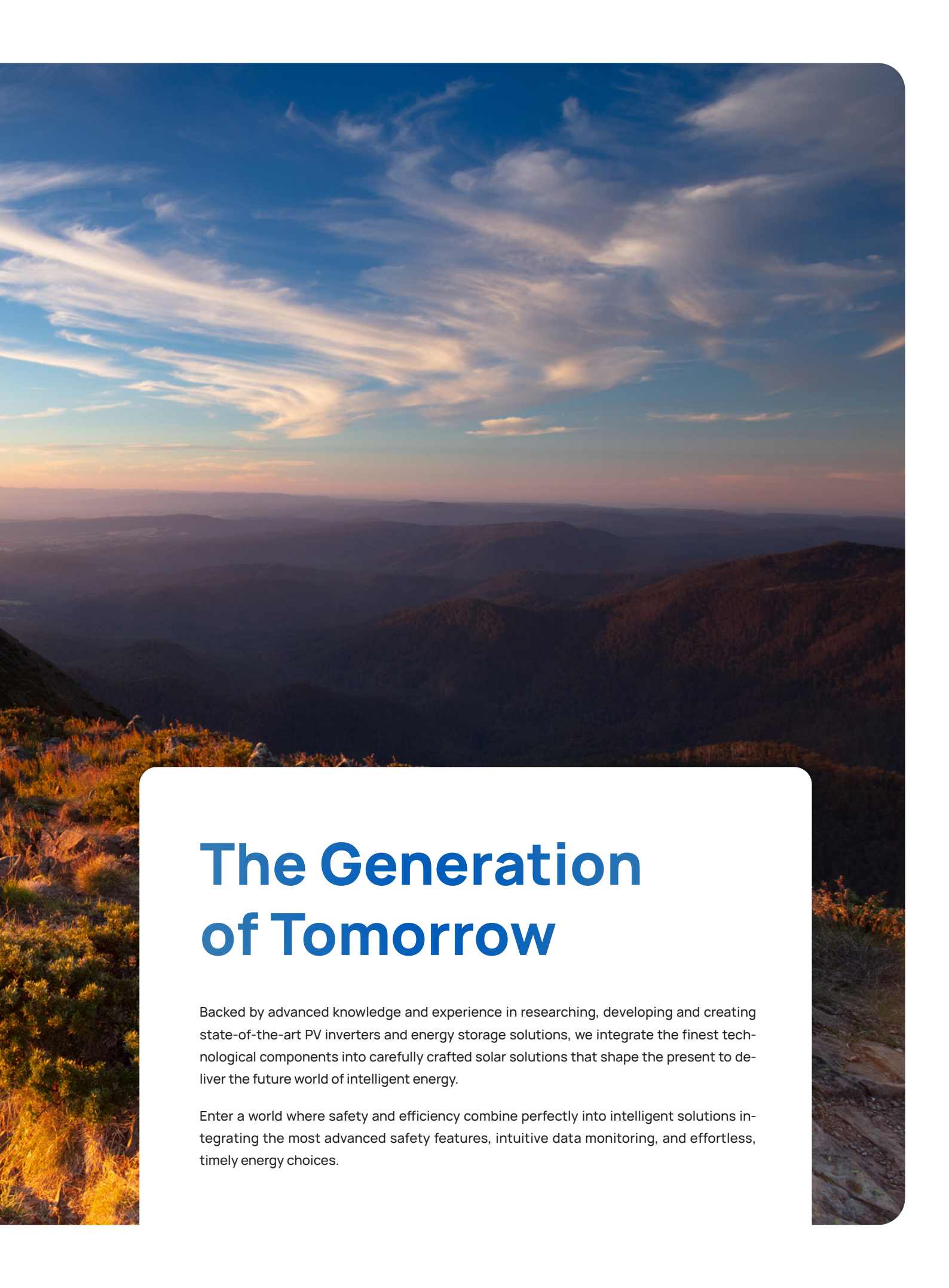


<http://au.gesolarinverter.com>









# The Generation of Tomorrow

Backed by advanced knowledge and experience in researching, developing and creating state-of-the-art PV inverters and energy storage solutions, we integrate the finest technological components into carefully crafted solar solutions that shape the present to deliver the future world of intelligent energy.

Enter a world where safety and efficiency combine perfectly into intelligent solutions integrating the most advanced safety features, intuitive data monitoring, and effortless, timely energy choices.

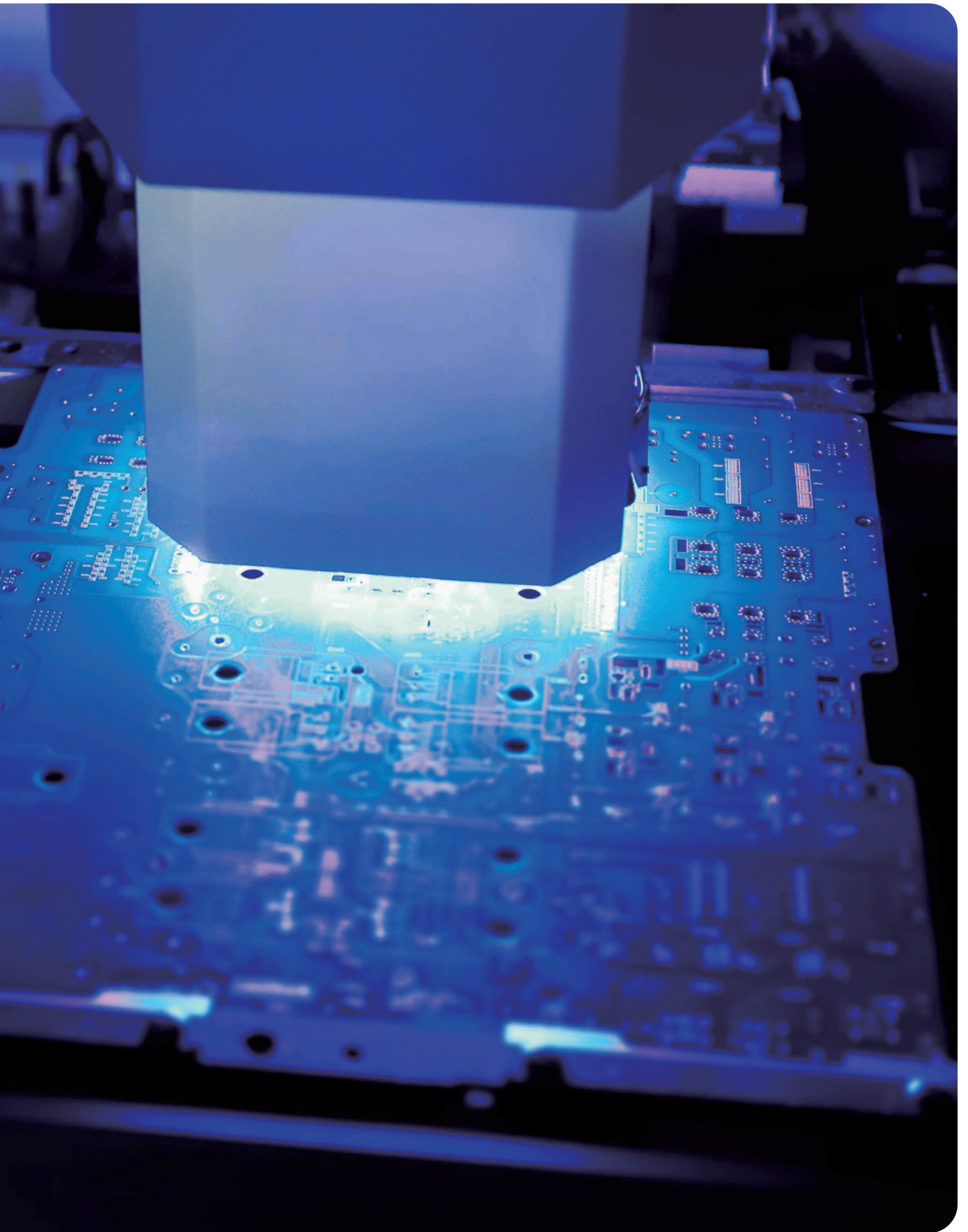


# The Energy Choices of Today

This is a space where flawless design and sophisticated technological components take the shape of solar inverters that enable the most intelligent use and distribution of solar energy to power the generations of tomorrow.

Tomorrow is a place where energy distribution is perfectly timed and effortlessly delivered by advanced switches powered by electric neurons. That place is today.







# Intelligence Switched On

Discover the intelligent features that shape the present to deliver the future world of smart energy.



Smart Shadow Scan



Inbuilt Export Control



Consumption Monitoring







# GEP 3-5kW

Single-phase | 2 MPPTs

GEP3.6-1-10

GEP4.2-1-10

GEP5.0-1-10

The GEP 3-5kW boasts beautiful aesthetics and a user friendly design from an elegant screen interface. Despite its small size, the GEP 3-5kW is capable of 150% DC oversizing, 110% AC overloading and 98.3% max efficiency, which gives it a unique competitive edge. The latest and most advanced safety features are intelligently integrated and packed in to this compact, but powerful model that is lightweight and easy to install.



## Superior Product Design

- Elegant aesthetic look
- Colour LED screen
- Plug & Play Installation



## High Power Generation

- 98.3% maximum efficiency
- 150% DC oversizing & 110% AC overloading
- Compatible with bifacial modules



## Elegant Aesthetic Design



Elegance and power combine perfectly in this compact, yet powerful inverter complete with a color LED screen interface.



# Easy Installation



The Plug & Play AC connectors and light wall-mounted design enhance the system's flexibility, making operation and maintenance more convenient. The GEP 3-5kW does not require cover removal during wiring, providing efficient installation.



# Superior Efficiency



This inverter allows 150% DC oversizing and 110% AC overloading to maximize yields, and enhance system efficiency. Its maximum efficiency of 98.3% is truly exceptional offering a unique, competitive edge in the single phase residential solar market.





# GEP 5-10kW

Single-phase | 3 MPPTs

GEP5.0-1C-10

GEP8.5-1-10

GEP10-1-10

The GEP 5-10kW is the ultimate solution for residential systems. This powerful single-phase model boasts 3 MPPTs for maximum power retention and absolute minimum power loss. With a startup voltage of only 80 V, 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 unleash its full potential of 200% DC oversizing, allowing for up to 110% AC overloading. All these features intelligently packed into a lightweight model for a simple installation.



## High Power Generation

- 3 MPPTs
- Up to 200% DC oversizing
- Start-up voltage of only 80 V



## Intelligent Control

- Load consumption monitoring
- Smart Shadow Scan
- Inbuilt Export Control



MPPTs  
MPPTs  
MPPTs  
3

3 MPPTs



A single phase on-grid inverter for residential applications. This versatile inverter is equipped with 3 MPP trackers, which makes it perfectly suited to complex rooftops, covering all rooftop corners and maximizing total solar generation.



## Up to 200% DC oversizing



Up to 200% DC oversizing & 110% AC overloading exerting maximum output capacity for higher power generation.

## Smart Shadow Scan



With Shadow Scan function activated, the MPP tracker scans the maximum power point regularly to make sure the inverter works at the maximum power of PV strings, minimizing the impact of partial shadows caused by occasional debris, dirt or chimney or tree shading on solar systems, thus producing more electricity when shading occurs.





# GEP 5-20kW

Three-phase | 2 MPPTs

GEP5.0-3-10

GEP8-3-AU10

GEP10-3-AU10

GEP15-3-10

GEP20-3-10

Intelligent safety features and unmatched efficiency place this model into a league of its own. This three phase inverter is a perfect choice for small business needs and a wider scale of residential applications, with the capability of 200% oversizing, incredible efficiency, and compatibility with the latest high power & bifacial modules. The most advanced safety features are intelligently integrated for maximum security and peace of mind. The modular design makes operation and maintenance much easier, providing upgraded safety and reliability. Welcome to the future of intelligent energy. Say hello to GEP 5-20kW.

## High Yields

- Up to 200% DC oversizing & 110% AC overloading
- Max. 15A per string

## Safety First on Your Roof

- AFCI & module-level rapid shutdown for safest solar\*
- Type II SPD now exchangeable\*

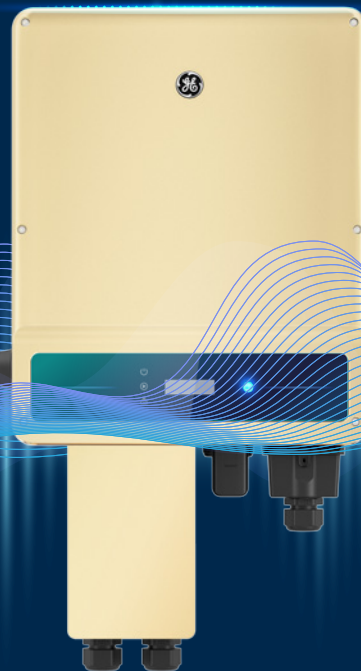
## User & Installer Friendly

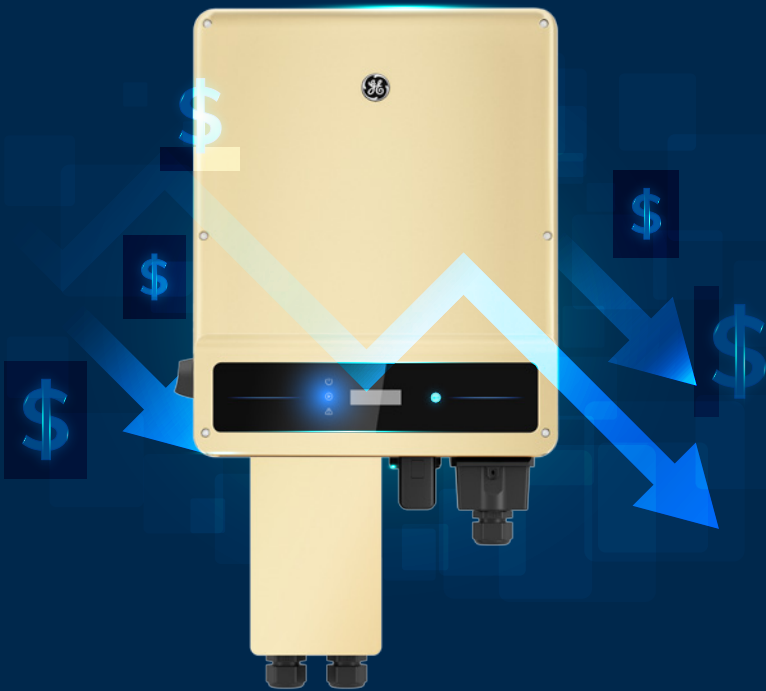
- A pleasant living environment thanks to excellent noise control: 5-10kW < 25dB
- 24h real-time consumption monitoring\*

## A Pleasant Living Environment



Excellent noise control: 5-10kW < 25dB.





## Reduced Costs



No need for an external DC Isolator thanks to a built-in PV II switch.

## Flexibility for Complex Solar Requirements



Up to two strings per MPPT (8-10K) caters for various locations and complex rooftops.



\* Optional functions are purchased separately.



# GEP 29.9-60kW

Three-phase | Up to 6 MPPTs

GEP29.9-10

GEP50-10

GEP60-10

The GEP 29.9-60kW has been designed to meet the increasing expectations from the Commercial sector. The GEP 29.9-60kW offers up to 6 MPPTs and is the ultimate solution for commercial rooftop PV systems. This future-ready machine uses a film capacitor and fuse-free design, optional Type I surge protection on the DC side, ensuring faster trouble-shooting, longer life-span and maximum safety. The GEP 29.9-60kW Series requires minimum O&M and offers an improved overall user experience. These intelligent features make the GEP 29.9-60kW one of the most future-proof inverters in its class.



## High Power Generation

- Up to 6 MPPTs
- Full-load running at 50°C



## Maximum Safety

- Type II SPD for both AC & DC
- Optional AFCI protecting circuits from arc faults\*



## Intelligent O&M

- Precise string current monitoring
- PID recovery optional\*



## Upgraded Safety



Optional Type I surge protection on the DC side (default Type II for both AC & DC sides) can limit the impact of lightning on the inverter, providing all-round protection for the PV system and upgraded safety and reliability. The application of high-tech fuse-free design provides reliability while reducing system operation and maintenance costs.



## Full-load Running at 50°C



With a wide operating temperature ranging from -30°C to 60°C, this inverter has a truly outstanding temperature tolerance range. Its ability to run at full load even when temperatures reach 50°C, bring increased power generation and long-term returns, especially for operation in tough Australian climates

## Compatible with High Power Modules



With 15A max. input current per string, GEP 29.9-60kW Series is compatible with different types of modules, which ensures more solar power absorption and makes it one of the most productive inverters on the market.



\* Optional functions are purchased separately.



# GEH 5-10kW

Single-phase Hybrid | Up to 4 MPPTs

GEH5.0-1U-10

GEH8.6-1U-10

GEH10-1U-10

The GEH series is a unique single-phase hybrid inverter that offers up to four MPPTs, is compatible with high voltage (80-495V) batteries and has a power capacity ranging from 5 kW to 10 kW. Homeowners can now experience the ultimate solution for maximising generation and self-consumption in comfort and security. Intelligent mechanisms are timely activated to ensure power supply to critical loads when most needed. AFCI (Arc-fault current interrupter) and rapid shutdown options likewise ensure the safety of the whole PV system, offering freedom and security all in one.



Incessant Power Supply

- Full backup capacity up to 10 kW
- UPS-level switching



High Power Generation

- Up to 4 MPPTs
- Up to 150% DC oversizing



Maximum Safety

- AC bypass switch
- AFCI & RSD for system safety\*



## Don't Settle for Less



Complex rooftop management - The GEH is equipped with up to 4 MPPTs to feed solar power to large residential properties and enables flexible PV string configurations for complex rooftops to maximise solar generation for the homeowner. The GEH series has been designed with intelligent solutions that read and analyse your rooftop area and respond in the most energy-efficient way.



## Intelligent Safety – AFCI & RSD Optional\*



**Active Arc Protection:** Detects arc fault failure, sends alarms through the monitoring system and breaks the circuit simultaneously, delivering efficiency and reliability.

**Rapid shutdown (RSD):** Safety First. GEH Series facilitates module-level rapid shutdown and ensures safe conditions on the roof in any situation.



## Keep Smiling When the Grid is Down



**UPS-level Switch Time:** Protect your appliances with UPS-level Switching. When the grid is down or compromised, loads connected to the backup receive continuous power supply with zero interruptions. When operating in backup function, this inverter provides you with 120% of peak output overloading for 60s.

\* Optimal functions are purchased separately.





# GEP 3-5kW

2 MPPTs | Single-phase

| Technical Data                          | GEP3.6-1-10                                     | GEP4.2-1-10        | GEP5.0-1-10        |
|---|---|--------------------|--------------------|
| <b>Input</b>                            |   |                    |                    |
| 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              |
| Max. Short Circuit Current per MPPT (A) | 16.3/16.3                                       | 16.3/16.3          | 16.3/16.3          |
| Number of MPP Trackers                  | 2   | 2                  | 2                  |
| Number of Strings per MPPT              | 1   | 1                  | 1                  |
| <b>Output</b>                           |   |                    |                    |
| Nominal Output Power (W)                | 3600  | 4200               | 5000               |
| Nominal Output Apparent Power (VA)      | 3600  | 4200               | 5000               |
| Max. AC Apparent Power (VA)             | 3960  | 4620               | 5500               |
| 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)                 | 18  | 21                 | 25                 |
| Power Factor                            | ~1 (Adjustable from 0.8 leading to 0.8 lagging) |                    |                    |
| Max. Total Harmonic Distortion          | <3%   | <3%                | <3%                |
| <b>Efficiency</b>                       |   |                    |                    |
| Max. Efficiency                         | 98.3%   | 98.3%              | 98.3%              |
| European Efficiency                     | 97.5%   | 97.6%              | 97.8%              |
| <b>Protection</b>                       |   |                    |                    |
| Residual Current Monitoring             | Integrated                                      | Integrated         | Integrated         |
| PV 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 Protection                     | Integrated (Type II)                            |                    |                    |
| AC Surge Protection                     | 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)                             | 11  | 11                 | 11                 |
| Dimension (W × H × D mm)                | 336 × 400 × 124                                 |                    |                    |
| Topology                                | Transformerless                                 |                    |                    |
| Self-consumption at Night (W)           | <1  | <1                 | <1                 |
| Ingress Protection Rating               | IP65  | IP65               | IP65               |
| Country of Manufacture                  | China   | China              | China              |



# 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 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 MPP Trackers                  | 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               |
| 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             | Integrated                                      | Integrated         | Integrated         |
| PV 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 Protection                     | Integrated (Type II)                            |                    |                    |
| AC Surge Protection                     | 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                                 |                    |                    |
| Self-consumption at Night (W)           | <1  | <1                 | <1                 |
| Ingress Protection Rating               | IP65  | IP65               | IP65               |
| Country of Manufacture                  | China   | China              | China              |





# GEP 5-20kW

2 MPPTs | Three-phase

| Technical Data                          | GEP5.0-3-10   | GEP8-3-AU10 | GEP10-3-AU10 | GEP15-3-10      | GEP20-3-10 |
|---|---|-------------|--------------|-----------------|------------|
| <b>Input</b>                            |   |             |              |                 |            |
| Max. Input Voltage (V)                  | 1100  | 1100        | 1100         | 1100            | 1100       |
| MPPT Operating Voltage Range (V)        | 140~950   | 140~950     | 140~950      | 140~950         | 140~950    |
| Start-up Voltage (V)                    | 180   | 180         | 180          | 180             | 180        |
| Nominal Input Voltage (V)               | 620   | 620         | 620          | 620             | 620        |
| Max. Input Current per MPPT (A)         | 15/15   | 30/30       | 30/30        | 30/30           | 30/30      |
| Max. Short Circuit Current per MPPT (A) | 18.7/18.7   | 37.5/37.5   | 37.5/37.5    | 37.5/37.5       | 37.5/37.5  |
| Number of MPP Trackers                  | 2   | 2           | 2            | 2               | 2          |
| Number of Strings per MPPT              | 1   | 2           | 2            | 2               | 2          |
| <b>Output</b>                           |   |             |              |                 |            |
| Nominal Output Power (W)                | 5000  | 8000        | 10000        | 15000           | 20000      |
| Max. AC Active Power (W)                | 5500  | 8800        | 11000        | 16500           | 22000      |
| Max. AC Apparent Power (VA)             | 5500  | 8800        | 11000        | 16500           | 22000      |
| Nominal Output Voltage (V)              | 3/N/PE, 220/380<br>3/N/PE, 230/400<br>3/N/PE, 240/415 |             |              |                 |            |
| Nominal AC Grid Frequency (Hz)          | 50/60   | 50/60       | 50/60        | 50/60           | 50/60      |
| Max. Output Current (A)                 | 8.0   | 12.8        | 16.0         | 24.0            | 32.0       |
| Power Factor                            | ~1 (Adjustable from 0.8 leading to 0.8 lagging)       |             |              |                 |            |
| Max. Total Harmonic Distortion          | <3%   | <3%         | <3%          | <3%             | <3%        |
| <b>Efficiency</b>                       |   |             |              |                 |            |
| Max. Efficiency                         | 98.3%   | 98.3%       | 98.3%        | 98.4%           | 98.4%      |
| European Efficiency                     | 97.6%   | 97.6%       | 97.6%        | 97.8%           | 97.8%      |
| <b>Protection</b>                       |   |             |              |                 |            |
| PV Insulation Resistance Detection      | Integrated  | Integrated  | Integrated   | Integrated      | Integrated |
| Residual Current Monitoring             | Integrated  | Integrated  | Integrated   | Integrated      | Integrated |
| PV Reverse Polarity Protection          | Integrated  | Integrated  | Integrated   | Integrated      | Integrated |
| Anti-islanding Protection               | Integrated  | Integrated  | Integrated   | Integrated      | Integrated |
| AC Overcurrent Protection               | Integrated  | Integrated  | Integrated   | Integrated      | Integrated |
| AC Short Circuit Protection             | Integrated  | Integrated  | Integrated   | Integrated      | Integrated |
| AC Overvoltage Protection               | Integrated  | Integrated  | Integrated   | Integrated      | Integrated |
| DC Switch                               | Integrated  | Integrated  | Integrated   | Integrated      | Integrated |
| DC Surge Protection                     | Type II   | Type II     | Type II      | Type II         | Type II    |
| AC Surge Protection                     | Type III (Type II Optional)                           |             |              |                 |            |
| AFCI                                    | Optional  | Optional    | Optional     | Optional        | Optional   |
| <b>General Data</b>                     |   |             |              |                 |            |
| Operating Temperature Range (°C)        | -30~60  | -30~60      | -30~60       | -30~60          | -30~60     |
| Relative Humidity                       | 0~100%  | 0~100%      | 0~100%       | 0~100%          | 0~100%     |
| Max. Operating Altitude (m)             | ≤4000   | ≤4000       | ≤4000        | ≤4000           | ≤4000      |
| Cooling Method                          | Natural Convection                                    |             |              | Fan Cooling     |            |
| Display                                 | LED; LCD (Optional); WiFi+APP/Bluetooth+APP           |             |              |                 |            |
| Communication                           | RS485/WiFi/LAN/4G                                     |             |              |                 |            |
| Weight (Kg)                             | 20.5  | 24          | 24           | 26              | 26         |
| Dimension (W × H × D mm)                | 415 × 511 × 175                                       |             |              | 415 × 511 × 198 |            |
| Noise Emission (dB)                     | <25   |             |              | <45             |            |
| Topology                                | Transformerless                                       |             |              |                 |            |
| Self-consumption at Night (W)           | <1  | <1          | <1           | <1              | <1         |
| Ingress Protection Rating               | IP65  | IP65        | IP65         | IP65            | IP65       |
| DC Connector                            | MC4 (2.5~4mm <sup>2</sup> )                           |             |              |                 |            |
| AC Connector                            | OT Terminal   |             |              |                 |            |
| Country of Manufacture                  | China   |             |              |                 |            |



## GEP 29.9-60kW

Up to 6 MPPTs | Three-phase

| Technical Data                          | GEP29.9-10                                      | GEP50-10                  | GEP60-10                  |
|---|---|---------------------------|---------------------------|
| <b>Input</b>                            |   |                           |                           |
| Max. Input Voltage (V)                  | 1100  | 1100                      | 1100                      |
| MPPT Operating Voltage Range (V)        | 200~950   | 200~950                   | 200~950                   |
| Start-up Voltage (V)                    | 180   | 180                       | 180                       |
| Nominal Input Voltage (V)               | 600   | 600                       | 600                       |
| MPPT Operating Voltage Range (V)        | 180~1100  | 180~1100                  | 180~1100                  |
| Max. Input Current per MPPT (A)         | 30  | 30                        | 30                        |
| Max. Short Circuit Current per MPPT (A) | 37.5  | 37.5                      | 37.5                      |
| Number of MPP Trackers                  | 3   | 5                         | 6                         |
| Number of Strings per MPPT              | 2   | 2                         | 2                         |
| <b>Output</b>                           |   |                           |                           |
| Nominal Output Power (W)                | 29900   | 50000                     | 60000                     |
| Nominal Output Apparent Power (VA)      | 29900   | 50000                     | 60000                     |
| Max. AC Active Power (W)                | 29900   | 55000                     | 66000                     |
| Max. AC Apparent Power (VA)             | 29900   | 55000                     | 66000                     |
| Nominal Output Voltage (V)              | 400, 3L/N/PE or 3L/PE                           | 400, 3L/N/PE or 3L/PE     | 400, 3L/N/PE or 3L/PE     |
| Nominal AC Grid Frequency (Hz)          | 50/60   | 50/60                     | 50/60                     |
| Max. Output Current (A)                 | 43.3  | 80                        | 96                        |
| Power Factor                            | ~1 (Adjustable from 0.8 leading to 0.8 lagging) |                           |                           |
| Max. Total Harmonic Distortion          | <3%   | <3%                       | <3%                       |
| <b>Efficiency</b>                       |   |                           |                           |
| Max. Efficiency                         | 98.3%   | 98.3%                     | 98.3%                     |
| European Efficiency                     | 98.0%   | 98.0%                     | 98.0%                     |
| <b>Protection</b>                       |   |                           |                           |
| Anti-islanding Protection               | Integrated                                      | Integrated                | Integrated                |
| PV Reverse Polarity Protection          | Integrated                                      | Integrated                | Integrated                |
| PV String Current Monitoring            | Integrated                                      | Integrated                | Integrated                |
| Anti-PID                                | Optional  | Optional                  | Optional                  |
| DC Surge Protection                     | Type II   | Type II (Type I optional) | Type II (Type I optional) |
| AC Surge Protection                     | Type II   | Type II                   | Type II                   |
| Residual Current Monitoring             | Integrated                                      | Integrated                | Integrated                |
| AC Overcurrent Protection               | Integrated                                      | Integrated                | Integrated                |
| AC Short Circuit Protection             | Integrated                                      | Integrated                | Integrated                |
| AC Overvoltage Protection               | Integrated                                      | Integrated                | Integrated                |
| <b>General Data</b>                     |   |                           |                           |
| Operating Temperature Range (°C)        | -30~60  | -30~60                    | -30~60                    |
| Relative Humidity                       | 0~100%  | 0~100%                    | 0~100%                    |
| Max. Operating Altitude (m)             | ≤3000   | ≤3000                     | ≤3000                     |
| Cooling Method                          | Smart Fan Cooling                               | Smart Fan Cooling         | Smart Fan Cooling         |
| Display                                 | LCD&LED or APP&LED                              | LCD&LED or APP&LED        | LCD&LED or APP&LED        |
| Communication                           | RS485 or WiFi, PLC (Optional)                   |                           |                           |
| Communication Protocols                 | Modbus-RTU (SunSpec compliant)                  |                           |                           |
| Weight (kg)                             | 40  | 55                        | 55                        |
| Dimensions (W × H × D mm)               | 480 × 590 × 200                                 | 520 × 660 × 220           | 520 × 660 × 220           |
| Ingress Protection Rating               | IP65  | IP65                      | IP65                      |
| Self-consumption at Night (W)           | <1  | <1                        | <1                        |
| Topology                                | Transformerless (Non-isolated)                  |                           |                           |
| Country of Manufacture                  | China   | China                     | China                     |





# GEH 5-10kW

Up to 4 MPPTs | Single-phase Hybrid

| Technical Data  | GEH5.0-1U-10  | GEH8.6-1U-10        | GEH10-1U-10 <sup>*5</sup>                  |
|---|---|---------------------|--|
| <b>Battery Input Data</b>                                     |   |                     |  |
| Battery Type  | Li-Ion (BYD HVM&HVS, LG RESU 10H-Type R&Prime, RESU 16H Prime, GOODWE LX S-H) |                     |  |
| Nominal Battery Voltage (V)                                   | 350   |                     |  |
| Battery Voltage Range (V) <sup>*1</sup>                       | 80~495  |                     |  |
| Max. Continuous Charging Current (A)                          | 50  |                     |  |
| Max. Continuous Discharging Current (A)                       | 50  |                     |  |
| Max Charge Power (W)  | 5000  | 8600                | 9600                                       |
| Max Discharge Power (W)                                       | 5250  | 9030                | 10080                                      |
| <b>PV String Input Data</b>                                   |   |                     |  |
| Max. Input Power (W)  | 7500  | 12900               | 15000                                      |
| Max. Input Voltage (V) <sup>*2</sup>                          | 600   |                     |  |
| MPPT Operating Voltage Range (V) <sup>*3</sup>                | 80~550  |                     |  |
| Start-up Voltage (V)  | 95  |                     |  |
| Nominal Input Voltage (V)                                     | 380   |                     |  |
| Max. Input Current per MPPT (A)                               | 13/13/13  | 13/13/13/13         |  |
| Max. Short Circuit Current per MPPT (A)                       | 16.3/16.3/16.3  | 16.3/16.3/16.3/16.3 |  |
| Number of MPP Trackers  | 3   | 4                   |  |
| Number of Strings per MPPT                                    | 1/1/1   | 1/1/1/1             |  |
| <b>AC Output Data (On-grid)</b>                               |   |                     |  |
| Nominal Output Voltage (V)                                    | 230   |                     |  |
| Nominal AC Grid Frequency (Hz)                                | 50  |                     |  |
| Nominal Apparent Power Output to Utility Grid (VA)            | 5000  | 8600                | 9500 (@220Vac); 10000 (@230Vac)            |
| Max. Apparent Power Output to Utility Grid (VA) <sup>*4</sup> | 5000  | 8600                | 9500 (@220Vac); 10000 (@230Vac)            |
| Max. Apparent Power from Utility Grid (VA)                    | 6000  | 10000               | 10000                                      |
| Max. AC Current Output to Utility Grid (A) <sup>*4</sup>      | 23  | 39                  | 43.5                                       |
| Max. AC Current From Utility Grid (A)                         | 27  | 45.5                | 45.5                                       |
| Max. Output Overcurrent Protection (A)                        | 56.5  | 95                  | 95   |
| Power Factor  | ~1 (Adjustable from 0.8 leading to 0.8 lagging)                               |                     |  |
| Max. Total Harmonic Distortion                                | <3%   |                     |  |
| <b>AC Output Data (Back-up)</b>                               |   |                     |  |
| Nominal Output Voltage (V)                                    | 230 (±2%)   |                     |  |
| Nominal Output Frequency (Hz)                                 | 50 (±0.2%)  |                     |  |
| Output THDv (@Linear Load)                                    | <3%   |                     |  |
| Max. Output Apparent Power (VA)                               | 5000(6000@60sec)  | 8600(10320@60sec)   | 9500(@220Vac); 10000(@230Vac)(12000@60sec) |
| Max. Output Current (A)                                       | 23  | 39                  | 43.5                                       |
| <b>Efficiency</b>   |   |                     |  |
| Max. Efficiency   | 97.6%   |                     |  |
| European Efficiency   | 97.0%   |                     |  |
| MPPT Efficiency   | 99.9%   |                     |  |
| Max. Battery to AC Efficiency                                 | 96.5%   |                     |  |
| <b>Protection</b>   |   |                     |  |
| AFCI  | Optional  |                     |  |
| Rapid Shutdown  | Optional  |                     |  |
| DC&AC Switch  | Integrated  |                     |  |
| DC Surge Protection   | Type II   |                     |  |
| AC Surge Protection   | Type II   |                     |  |
| Anti-islanding Protection                                     | Integrated  |                     |  |
| PV Reverse Polarity Protection                                | Integrated  |                     |  |
| PV Insulation Resistance Detection                            | Integrated  |                     |  |
| Residual Current Monitoring                                   | Integrated  |                     |  |
| AC Overcurrent Protection                                     | Integrated  |                     |  |
| AC Short Circuit Protection                                   | Integrated  |                     |  |
| AC Overvoltage Protection                                     | Integrated  |                     |  |
| Battery Reverse Polarity Protection                           | Integrated  |                     |  |
| <b>General Data</b>   |   |                     |  |
| Operating Temperature Range (°C)                              | -35~60  |                     |  |
| Relative Humidity   | 0~95%   |                     |  |
| Max. Operating Altitude (m)                                   | ≤4000   |                     |  |
| Cooling Method  | Intelligent Fan   |                     |  |
| Noise Emission (dB)   | <50   |                     |  |
| Display   | LED & APP (WiFi & Bluetooth)  |                     |  |
| Communication with BMS  | RS485; CAN  |                     |  |
| Communication with Meter                                      | RS485   |                     |  |
| Communication with Portal                                     | Wi-Fi   |                     |  |
| Weight (kg)   | 28.8  | 32.3                |  |
| Dimensions (W × H × D mm)                                     | 415 × 791 × 175   |                     |  |
| Mounting Method   | Wall Bracket  |                     |  |
| Ingress Protection Rating                                     | IP65  |                     |  |
| Self-consumption at Night (W)                                 | <20   |                     |  |
| Topology  | Transformerless   |                     |  |
| Country of Manufacture  | China   |                     |  |

\*1: Battery discharge/charge power limited by voltage.

\*2: Inverter will not work when PV input voltage ≥585V.

\*3: When there is no battery connected, inverter starts feeding in only if string voltage is higher than 200V.

\*4: The grid feed in power for AS/NZS 4777.2 is limited to 4950VA & 21.7A.

\*5: The model name does not represent the rated power, please refer to the marked parameters for details.



# Intelligence Switched On

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