



**Delivering true flexibility, the new All in One 2 system integrates a 12kW inverter and 13.5kWh of usable capacity. Optional hybrid functionality with the MPPT boasting six independent PV trackers providing advanced control, while Expansion Battery packs allow you to scale to your exact needs, today and tomorrow.**



#### Grid Services Ready

By allowing energy suppliers or aggregators to control your system, you can receive financial incentives while helping to stabilise the grid.



#### Whole House Back Up

Combine the system with our Gateway 2 to ensure uninterrupted power. In the event of a grid failure, your home continues to run off-grid until the supply is restored.



#### Modular Design

The All in One 2 has been designed to be more compact whilst allowing for additional modules.

Need extra capacity? Simply add Expansion Battery packs, the modular design allow seamless parallel installation and capacity expansion.

Want to integrate your solar directly to your battery? The MPPT unit can handle 6 independent PV strings that make use of that extra capacity.

## All in One 2 + MPPT

12kW | 13.5kWh

6.0/8.0/10.0/11.0/12.0

### INPUT / OUTPUT DATA (AC)

|                                               |                            |
|-----------------------------------------------|----------------------------|
| Rated AC Output Power (On-Grid)               | 6/8/10/11/12kW             |
| Max. Apparent Power                           | 6/8/10/11/12kVA            |
| Nominal Off-Grid Power                        | 12kVA                      |
| Peak Power (10s, Off-Grid)                    | 14.4kVA                    |
| Rated/Max. Output Current (On-Grid)           | 26/34.8/43.5/47.8/52A      |
| Nominal Grid Voltage/Range                    | 230V.a.c (180 to 270V.a.c) |
| Rated Grid Frequency                          | 50/60±5Hz                  |
| Power Factor (Full Load)                      | >0.9                       |
| Displacement Power Factor                     | 0.8 Lagging to 0.8 Leading |
| Total Harmonic Distortion (THDi, Rated Power) | <3%                        |
| AC Output Type                                | Single Phase               |

### INTERNAL BATTERY

|                                           |                              |
|-------------------------------------------|------------------------------|
| SKU                                       | GIV-BAT-13.5-AIO2            |
| Battery Type                              | Li-ion - LiFePO <sub>4</sub> |
| Operating Voltage Range                   | 260-346V                     |
| Nominal Voltage                           | 307V                         |
| Max. Charging / Discharging Current       | 25A <sup>1</sup> /41A        |
| Rated Capacity                            | 52Ah                         |
| Max. Battery Charging / Discharging Power | 6kW <sup>2</sup> /12.6kW     |
| Design Energy                             | 15.9kWh                      |
| Communication Interfaces                  | CAN                          |

### INPUT DATA PV (Optional MPPT)

|                                            |                 |
|--------------------------------------------|-----------------|
| SKU                                        | GIV-MPP-20.0-G1 |
| Max. DC Input Power                        | 20kW            |
| Max. DC Input Power of Single MPP Tracker  | 4.5kW           |
| Start-Up Voltage                           | 60V             |
| Max. PV Open-Circuit Voltage               | 600V            |
| MPPT Voltage Range                         | 80-550V         |
| Rated MPPT Voltage                         | 360V            |
| Max. Input Current                         | 6*17A           |
| Max. PV Short-Circuit Current              | 6*23A           |
| MPP Tracker/No. of Strings Per MPP Tracker | 6/1             |
| Dimensions (WxHxD)                         | 600x145x280(mm) |

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## GENERAL DATA

|                                           |                                                                                                                  |
|-------------------------------------------|------------------------------------------------------------------------------------------------------------------|
| SKU                                       | GIV-AIO-13.5-6.0/8.0/10.0/11.0/12.0                                                                              |
| Max. Battery Charging / Discharging Power | 96.5%                                                                                                            |
| PV Max. Efficiency                        | 97.1%/97.1%/97.3%/97.3%/97.5%                                                                                    |
| Euro Efficiency                           | 96.6%/96.6%/96.8%/96.8%/97.0%                                                                                    |
| MPPT Efficiency                           | 99.9%                                                                                                            |
| Ingress Protection                        | IP65                                                                                                             |
| Protection Class                          | I                                                                                                                |
| Overvoltage Category                      | Battery: II, AC: III                                                                                             |
| Inverter Topology                         | Transformerless                                                                                                  |
| Cooling                                   | Smart Fan Cooling                                                                                                |
| Noise Emission                            | 50dB                                                                                                             |
| Operating Temperature Range               | -20°C - 55°C                                                                                                     |
| Humidity                                  | 0~100% (Non-Condensing)                                                                                          |
| Altitude                                  | 4000m<br>(Derating above 2000m)                                                                                  |
| Dimensions (WxHxD)                        | 600x950x280(mm)                                                                                                  |
| Weight                                    | AIO with Batteries 181.3kg<br>AIO without Batteries 56.5kg<br>MPPT unit 17.8kg<br>Individual battery pack 31.2kg |
| Standby Power                             | <15W                                                                                                             |
| No. of Parallel Operation                 | 2                                                                                                                |
| Display LCD                               | LED and APP                                                                                                      |
| Communication Interfaces                  | RS485/WIFI/4G/LAN/BLE/CAN                                                                                        |
| Warranty                                  | 15 Years                                                                                                         |
| Country Of Manufacture                    | China                                                                                                            |
| Certificates                              | G99, CE, UKCA, IEC62619                                                                                          |

<sup>1</sup>Max. Charging/Discharging Current (AIO with up to 2 or 3 Expansion Units): 41A/41A

<sup>2</sup>Max. Charging/Discharging Power (AIO with up to 2 or 3 Expansion Units): 12kW/12.6kW

All in One 2



All in One 2 with MPPT

