



**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/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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12kW | 13.5kWh

6.0/8.0/10.0/11.0/12.0

## 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 (Derating above 2000m)
Dimensions (WxHxD)	600x950x280(mm)
Weight	AIO with Batteries 181.3kg AIO without Batteries 56.5kg MPPT Unit 17.8kg 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

