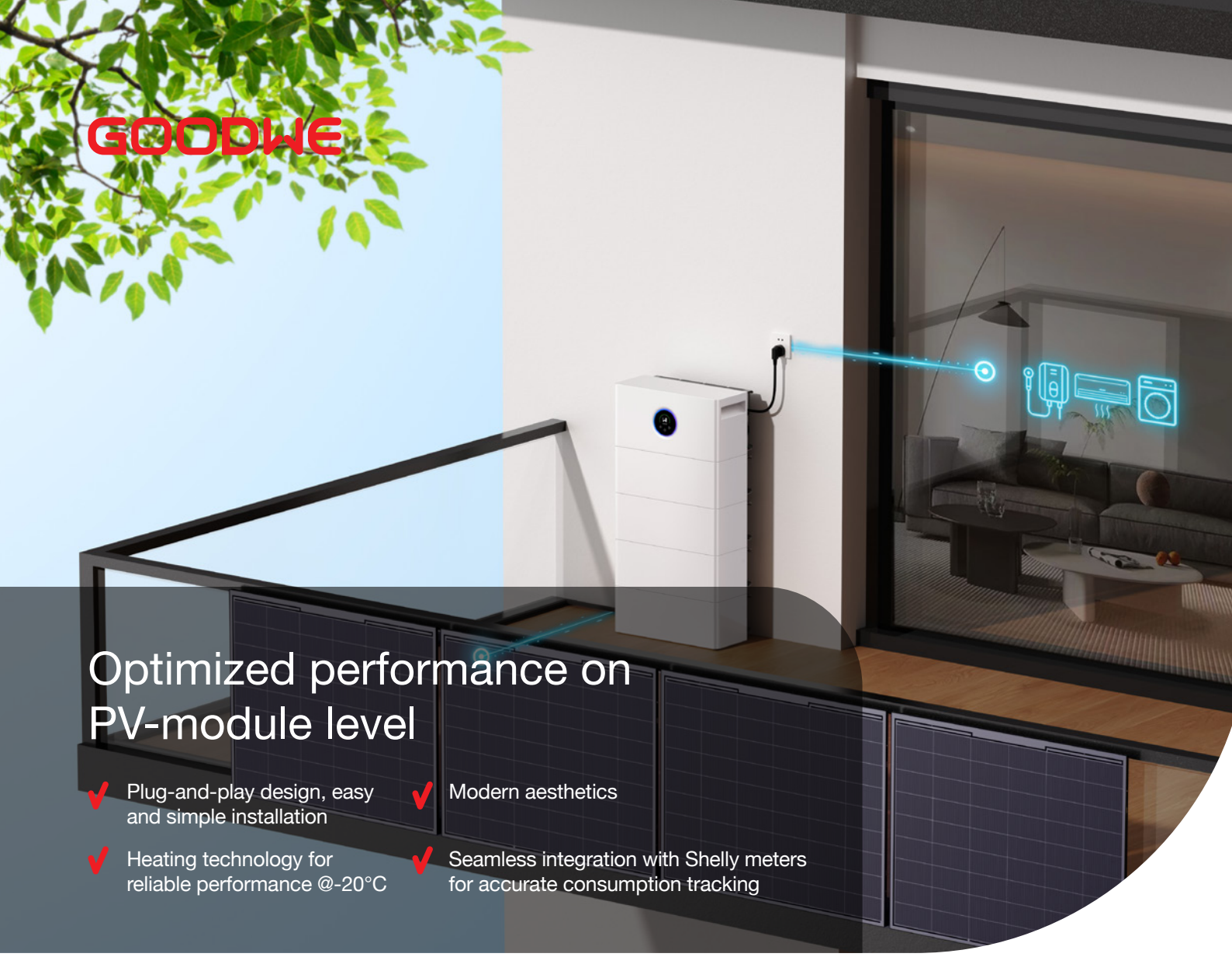
GOODWE



Optimized performance on PV-module level

- Plug-and-play design, easy and simple installation
- Modern aesthetics
- Heating technology for reliable performance @-20°C
- Seamless integration with Shelly meters for accurate consumption tracking

GoodWe's micro-storage is a compact, all-in-one energy solution that makes clean power simple and accessible. Designed to lower electricity costs and support off-grid needs, it combines a built-in inverter and battery in one intelligent system. A breathing light intuitively indicates operating status, while the stackable design allows effortless capacity expansion as your energy needs grow. With its seamless integration, elegant design, and smart functionality, GoodWe's micro-storage empowers you to take control of your energy independence.

- Stackable to 9.6kWh - supports mixing old and new batteries
- 4 MPPTs with 2400W PV input
- 1500W off-grid output for reliable home backup

ESA-Athena Series / Power Module

GOODWE

Technical Data	GW0.8/1.9-ESA-PS-G10
Battery Data	
Battery Type	LFP (LiFePO4)
Rated Capacity (Ah)	100
Rated Energy (kWh)	1.92
Nominal Voltage (V)	19.2
Max. Input / Output Power (kW)-Basic Unit	1.6 / 1.6
Max. Input / Output Power (kW)-With Expandable Battery	2.4 / 1.6
Cycle Life	>6000 (25 ± 2°C 0.5P 100%DOD 70%EOL)
PV String Input Data	
Max. MPPT Input Power (kW)	2.4
Max. Input Voltage (V)	60
Operating Voltage Range (V)	13 ~ 60
Max. MPPT Current (A)	18 / 18 / 18 / 18
Max. MPPT Short Circuit Current (A)	20 / 20 / 20 / 20
Number of MPP Trackers	4
Number of Strings per MPPT	1
AC Output Data (On-grid)	
Nominal Power (kW)	0.8
Max. Current to Grid (A)	3.6 @ 220V 3.5 @ 230V 3.3 @ 240V
Max. Apparent Power from Grid (kVA)	1.5
Max. Current from Grid (A)	8.8
Nominal Voltage (V)	220 / 230 / 240, L / N / PE
Nominal Frequency (Hz)	50 / 60
Power Factor	~1 (adjustable from 0.8 lagging to 0.8 leading)
THDi	3%
AC Output Data (Back-up)	
Max. Output Apparent Power (kVA)	1.5
Max. Output Current (A)	6.8
Nominal Output Voltage (V)	220 / 230 / 240, L / N / PE
Nominal Output Frequency (Hz)	50 / 60
THDu	<3%
Switching from Grid Connected Mode to Standalone Mode (ms)	<10
Protection	
PV Insulation Resistance Detection	Integrated
Anti-islanding Protection	Integrated
AC Overcurrent Protection	Integrated
AC Short Circuit Protection	Integrated
AC Overvoltage Protection	Integrated
AC Surge Protection	Type III
Fast AC Discharge	Integrated
Fire Safety Equipment	Optional (Aerosol)
General Data	
Operating Temperature Range (°C)	-20 ~ +55 (With Heating)
Relative Humidity	0 ~ 95%
Max. Operating Altitude (m)	3000
Communication Interface	Bluetooth, Wi-Fi
Weight (kg)	26
Dimension (W × H × D mm)	480 × 249 × 260
Noise Emission (dB)	23
Topology	Isolated
Ingress Protection	IP65
Protection Class	Class II
Warranty (year)	10 Years

*: Please visit GoodWe website for the latest certificates.

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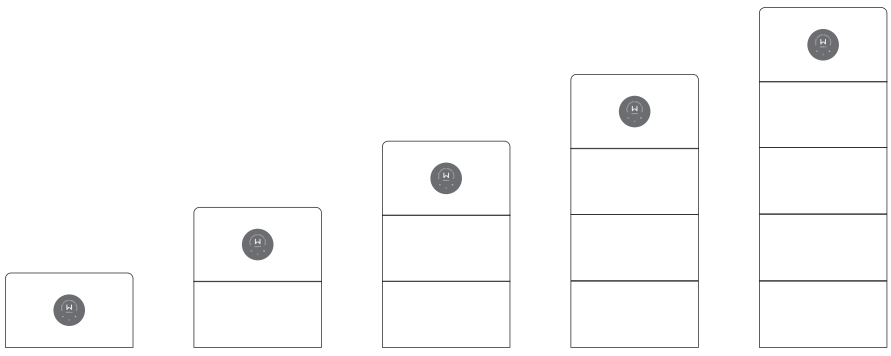
ESA-Athena Series / Battery Module

GOODWE

Technical Data	GW01.9-BAT-LVD-G10
Battery Data	
Battery Type	LFP (LiFePO4)
Rated Capacity (Ah)	100
Rated Energy (kWh)	1.92
Max. Charge / Discharge Power (kW)	1.6 / 1.6
Cycle Life	>6000 (25 ± 2°C 0.5P 100%DOD 70%EOL)
General Data	
Operating Temperature Range (°C)	-20 ~ +55 (With Heating)
Relative Humidity	0 ~ 95%
Max.Operating Altitude (m)	3000
Weight (kg)	21
Dimension (W × H × D mm)	480 × 180 × 260
Ingress Protection	IP65
Protection Class	Class II
Fire Safety Equipment	Aerosol (Optional)
Warranty (year)	10 Years

*: Please visit GoodWe website for the latest certificates.



Number of Battery Modules (pcs)	1	2	3	4	5
Total Energy Capacity (kWh)	1.92	3.84	5.76	7.68	9.60

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