

MS-H2/MS-A2

Embrace the sun's bright light
MS illuminates your world day and night



Open Energy For All

Unlock the Potential

The first **AC-coupled** balcony power storage system in the market, seamlessly compatible with all microinverters.

Integrated battery capacity of up to **2,048 Wh**, allow effortless expansion by connecting two units in series.



Style Meets Functionality

From balconies and courtyards to outdoor spaces, MS delivers clean power wherever you need it.

Plug & Play installation design offers flexibility and ease, just two steps for a seamless electrical connection.

Security Beyond Standards

The **FIRST** microinverter energy storage product to earn the **ETSI EN 303 645 Cybersecurity** certification, safeguarding your personal information.

Through a new app, MS provides real-time monitoring and control. Your energy world, is in the palm of your hand.



High Reliability

Powered by **LFP** batteries and adhering to the **IEC 62619** standards, MS guarantees your family's safety and peace of mind.

MS supports **6000+** battery cycles, standing the test of time.

Technical Specifications



Model	MS-H2	MS-A2-FX
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PV Input

Maximum input power (W)	600 × 2	x
Maximum input voltage (V)	60	x
Operating voltage range (V)	12 - 60	x
MPPT voltage range (V)	12 - 48	x
Start-up voltage (V)	18	x
Maximum input current (A)	16 × 2	x
Maximum input short circuit current (A)	25 × 2	x
Number of MPPT	2	x
Number of inputs per MPPT	1	x

AC Output (On-grid Port)

Nominal output apparent power (VA)	800	800
Max. output apparent power (VA)	800 ⁽¹⁾	800 ⁽¹⁾
Grid type	Single-phase	Single-phase
Nominal AC voltage/range (V)	230/180 - 270 ⁽²⁾	230/180 - 270 ⁽²⁾
Nominal AC frequency/range (Hz)	50/45 - 55 ⁽²⁾	50/45 - 55 ⁽²⁾
Nominal output current (A)	3.48	3.48
Max. output current (A)	3.48 ⁽³⁾	3.48 ⁽³⁾
AC round-trip efficiency (%)	90 ⁽⁴⁾	90 ⁽⁴⁾
Power factor	> 0.99 0.8 leading ... 0.8 lagging	> 0.99 0.8 leading ... 0.8 lagging
Total harmonic distortion (@nominal load)	< 3%	< 3%

AC Input and Output (Off-grid Port)

Max. output apparent power (VA)	800	800
Peak output apparent power (VA)	1200, 10s	1200, 10s
Grid type	Single-phase	Single-phase
Connector type	Schuko socket	Schuko socket
Nominal AC voltage (V)	230	230
Nominal AC frequency (Hz)	50	50
Max. output current (A)	3.48	3.48
Total harmonic distortion (@liner load)	< 3%	< 3%
Max. input power (VA)	2000	2000
Max. input current (A)	8.70	8.70

Model

MS-H2

MS-A2-FX

Battery

Capacity (Wh)	2048	2048
Cell type	LiFePO4	LiFePO4
Life cycles	> 6000	> 6000
Charging temperature (°C)	0 to 55	0 to 55
Discharging temperature (°C)	-20 to 55	-20 to 55
Nominal apparent power (VA)	1000 (charge and discharge)	1000 (charge and discharge)
DC round-trip efficiency (%)	96 ⁽⁵⁾	x

General

Weight (kg)	33	33
Dimensions (L × W × H [mm])	455 × 220 × 457	455 × 220 × 457
Mounting	Wall-mounted or Floor-mounted	Wall-mounted or Floor-mounted
Cooling	Natural convection - No fans	Natural convection-No fans
Wireless type	Bluetooth, 2.4GHz Wi-Fi	Bluetooth, 2.4GHz Wi-Fi
Interface	LED & APP	LED & APP
Protection degree	IP65 ⁽⁶⁾	IP65 ⁽⁶⁾

Standards

Grid Compliance	VDE-AR-N 4105: 2018, TOR Erzeuger Type A, EN 50549-1: 2019, EN 50549-10:2022	VDE-AR-N 4105: 2018, TOR Erzeuger Type A, EN 50549-1: 2019, EN 50549-10:2022
Safety	IEC 62109-1/-2, IEC 62477-1, IEC 62619, IEC 63056, UN 38.3	IEC 62477-1, IEC 62619, IEC 63056, UN 38.3
EMC	EN 61000-6-1/-2/-3/-4, EN 61000-3-2/-3, EN 62920	EN 61000-6-1/-2/-3/-4, EN 61000-3-2/-3

[1] It can be customized by using the S-Miles App and can be adjusted up to 1000 VA.

[2] The nominal voltage/frequency range may vary based on local requirements.

[3] It is the ratio of max. output apparent power to nominal AC voltage.

[4] From AC to the battery and then back to AC. This measurement is taken at the beginning of the battery's life cycle.

[5] From DC to the battery and then back to DC. This measurement is taken at the beginning of the battery's life cycle.

[6] The product is rated IP65 overall, with the exception of the standard AC socket.

Size

