

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

hoymiles



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



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Model	MS-H2	MS-A2-FX
PV Input		
Maximum input power (W)	600 × 2	х
Maximum input voltage (V)	60	x
Operating voltage range (V)	12 - 60	х
MPPT voltage range (V)	12 - 48	x
Start-up voltage (V)	18	х
Maximum input current (A)	16 × 2	х
Maximum input short circuit current (A)	25 × 2	х
Number of MPPT	2	х
Number of inputs per MPPT	1	х
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%
May input power (/A)	2000	2000

2000

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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)	×

General

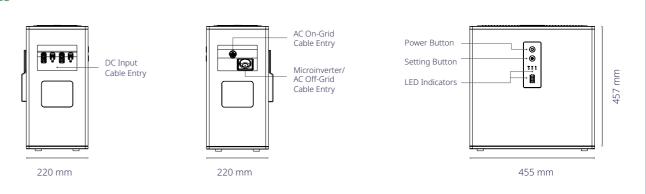
Weight (kg)	33	33
Dimensions (L× W × H [mm])	455 × 220 × 457	455 × 220 × 457
Mounting	Wall-mounted or Floor-mounted	Wall-mounted or Floor-mounted
Cooling	Natural convection - No fans	Natural convection-No fans
Wireless type	Bluetooth, 2.4GHz Wi-Fi	Bluetooth, 2.4GHz Wi-Fi
Interface	LED & APP	LED & APP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



Max. input power (VA)

Max. input current (A)