

# Zertifikat *Certificate*

**Zertifikatsnummer Certificate No.:**

R 50637453 0001

**Berichtsnummer Report No.:**

CN24UOJK 001

**Genehmigungsinhaber License Holder:**

Hoymiles Power Electronics Inc.  
No.18 Kangjing Road,  
Hangzhou,  
310015 Zhejiang  
P.R. China

**Fertigungsstätte Manufacturing Site:**

Hoymiles Power Electronics Inc.  
No. 149 Kangzhong Road,  
Hangzhou,  
310015 Zhejiang  
P.R. China

**Prüfzeichen Test Mark:**



**Geprüft nach Tested according to:**

IEC 62477-1:2012+A1  
EN 62477-1:2012+A11+A1+A12

**Geräteidentifikation**

*Product Identification*

**Produkt:** Energy Storage system  
*Product:* (Microinverter Energy Storage System)

**Modell:** Modelle sind auf nächste(r) Seite(n) gelistet  
*Type:* Type designation(s) are listed on the next page(s)

**Technische Daten:** Refer to next page(s)  
*Technical Data:* ANLAGE (Appendix): 1.0

**Gültig ab:** 2024-07-25  
*Valid from:*

**Zertifizierungsstelle:**  
*Certification body:*

**Ausstellungsdatum:** 2024-07-25  
*Date of issue:*

  
Dean Cao



Dem Zertifikat liegt unsere Prüf- und Zertifizierungsordnung zugrunde und es bestätigt die Konformität des Produktes mit den oben genannten Standards und Prüfgrundlagen. Zusätzliche Anforderungen in Ländern, in denen das Produkt in Verkehr gebracht werden soll, müssen zusätzlich betrachtet werden. Die Herstellung des zertifizierten Produktes wird überwacht.

*This certificate is based on our Testing and Certification Regulation and states the conformity of the product with the standards and testing requirements as indicated above. Any additional requirements in countries where the product is going to be marketed have to be considered additionally. The manufacturing of the certified product is subject to surveillance.*

**TÜV Rheinland LGA Products GmbH, Tillystraße 2, 90431 Nürnberg**

<http://www.tuv.com/safety> E-mail: [markcheck@tuv.com](mailto:markcheck@tuv.com)

Fax: +49 221 806-3935

[www.tuv.com](http://www.tuv.com)

 **TÜVRheinland®**  
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**Produkt** *Product:* Energy Storage system  
(Microinverter Energy Storage System)

**Modell** *Type:* **Bezeichnung** *Designation:*  
MS-A2-FX

For Output (On-Grd Port)

Nominal output apparent power[VA]: 800  
Nominal AC voltage [V] : 230 single phase  
Nominal AC voltage range [V] : 180-270  
Nominal AC frequency[Hz] : 50  
Nominal AC frequency range[Hz] : 45-55  
Maximum output current [A] : 3.48  
Power Factor : [-0.8, 0.8]

For AC Input and Output (Off-Grid port)

Maximum output apparent power[VA]: 800  
Nominal AC voltage [V] : 230, single-phase  
Nominal AC frequency[Hz] : 50  
Maximum output current [A] : 3.48  
Maximum input power [W] : 1800  
Maximum input current [A] : 7.83

For Battery side (internal)

Capacity [Wh] : 2240  
Battery type : LiFePO4  
Life cycles :  $\geq 6000$   
Charging temperature [ $^{\circ}$ C] : 0 to 55 (> 45 derating)  
Discharging temperature [ $^{\circ}$ C] : -20 to 55 (> 45 derating)  
Nominal apparent power[W] : 1000(charge and discharge)  
Nominal voltage [Vd.c.] : 22.4

General information

Protective Class : Class I  
Overvoltage Category (OVC) : II  
Ingress Protection (IP) : IP65  
(AC off-grid socket is rated at IP44)  
Pollution degree (PD) : PD3  
Altitude [m] : 2000  
Type of Inverter : DC and AC with transformer isolated.

Remark(s):

The installation has to be carried out according to the attached installation instruction.

Any additional requirements in countries where the product is going to be marketed have to be considered additionally.



# Zertifikat *Certificate*

**Zertifikatsnummer Certificate No.:**

R 50634926 0001

**Berichtsnummer Report No.:**

CN240JTC 001

**Genehmigungsinhaber License Holder:**

Hoymiles Power Electronics Inc.  
No.18 Kangjing Road,  
Hangzhou,  
310015 Zhejiang  
P.R. China

**Fertigungsstätte Manufacturing Site:**

Hoymiles Power Electronics Inc.  
No. 149 Kangzhong Road,  
Hangzhou,  
310015 Zhejiang  
P.R. China

**Prüfzeichen Test Mark:**



**Geprüft nach Tested according to:**

IEC 62109-1:2010  
IEC 62109-2:2011  
EN 62109-1:2010  
EN 62109-2:2011

**Geräteidentifikation**

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*Product:* (Microinverter Energy Storage System)

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**Berichtsnummer** *Report No.:*

CN240JTC 001

**Produkt** *Product:* Energy Storage system  
(Microinverter Energy Storage System)

**Modell** *Type:* **Bezeichnung** *Designation:*  
MS-H2-FX

For PV input

Maximum input power[VA] : 600\*2  
Vmax PV [Vd.c.] : 60  
MPPT Voltage Range[Vd.c.] : 12-48  
MPPT Full Power Voltage Range[Vd.c.]: 38-48  
Maximum input current [Ad.c.] : 16\*2  
Maximum Isc PV [Ad.c.] : 25\*2

For Output (On-Grid Port)

Nominal output apparent power[VA]: 800  
Nominal AC voltage [V] : 230 single phase  
Nominal AC voltage range [V] : 180-270  
Nominal AC frequency[Hz] : 50  
Nominal AC frequency range[Hz] : 45-55  
Maximum output current [A] : 3.48  
Power Factor : [-0.80, 0.80]

For AC Input and Output (Off-Grid port)

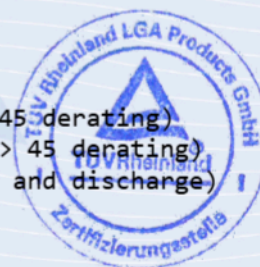
Maximum output apparent power[VA]: 800  
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Maximum input power [W] : 1800  
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Capacity [Wh] : 2240  
Battery type : LiFePO4  
Life cycles : ≥6000  
Charging temperature [°C] : 0 to 55 (> 45 derating)  
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Nominal apparent power[W] : 1000(charge and discharge)  
Nominal voltage [Vd.c.] : 22.4

General information

Protective Class : Class I  
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