



# OIML Certificate

**OIML Member State**  
The Netherlands

Number R46/2012-A-NL1-24.04 revision 0  
Project number 3706256  
Page 1 of 3

Issuing authority NMi Certin B.V.  
Person responsible: M.Ph.D. Schmidt

Applicant and Manufacturer Ningbo Sanxing Medical & Electric Co. Ltd.  
No.1166 Mingguang North Road  
Yinzhou Industrial Zone, Jiangshan Town, Yinzhou District  
Ningbo City, Zhejiang Province  
China

Identification of the certified type An **Active electrical energy meter**  
Type: S34U18 (160A)

Characteristics See following page(s)

This OIML Certificate is issued under scheme A.

This Certificate attests the conformity of the above identified type (represented by the sample(s) identified in the OIML Type Evaluation Report) with the requirements of the following Recommendation of the International Organization of Legal Metrology (OIML):

**R 46-1/-2: 2012 "title OIML Recommendation"**

Accuracy class **B**

This Certificate relates only to the metrological and technical characteristics of the type of measuring instrument covered by the relevant OIML International Recommendation identified above.  
This Certificate does not bestow any form of legal international approval.

Important note: Apart from the mention of the Certificate's reference number and the name of the OIML Member State in which the Certificate was issued, partial quotation of the Certificate and of the associated OIML Type Evaluation Report(s) is not permitted, although either may be reproduced in full.

Issuing Authority **NMi Certin B.V., OIML Issuing Authority NL1**  
2 April 2024

## Certification Board

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This document is issued under the provision that no liability is accepted and that the applicant shall indemnify third-party liability.

The notification of NMi Certin B.V. as Issuing Authority can be verified at [www.oiml.org](http://www.oiml.org)

This document is digitally signed and sealed. The digital signature can be verified in the blue ribbon at the top of the electronic version of this certificate.





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**OIML Member State**  
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Number R46/2012-A-NL1-24.04 revision 0  
Project number 3706256  
Page 2 of 3

The conformity was established by the results of tests and examinations provided in the associated report(s):

- No. NMI-2534036-01 dated 14 January 2021 that includes 21 pages;
- No. NMI-2534036-02 dated 14 January 2021 that includes 12 pages;
- No. NMI-3706256-01 dated 2 April 2024 that includes 10 pages.

## Characteristics of the measuring instrument

In Table 1 the general characteristics of the measuring instrument are presented.  
The construction of the measuring instrument is recorded in the Documentation folder no. R46/2012-A-NL1-24.04-1.

**Table 1 General characteristics**

General characteristics	
Meter type	Static
Connection mode (phase, wires, elements)	3p, 4w, 3e
Direction of energy flow / registers	Two-registers, bi-directional
Terminal arrangement	DIN
Protective class	Category 2
Environmental application	
Ambient temperature range	-10 °C to +70 °C* *tested for the upper temperature of +75 °C on customer request.
Humidity class	H1
IP Rating / environmental use	IP54
Meter quantities	
Nominal voltage ( $U_{nom}$ )	3x133/230V...3x230/400V
Nominal frequency ( $f_{nom}$ )	60 Hz
Maximum current ( $I_{max}$ )	160 A
Transitional current ( $I_{tr}$ )	2 A ( $I_b = 20$ A)
Minimum current ( $I_{min}$ )	1 A
Starting current ( $I_{st}$ )	0,08 A
Meter constant	1.000 imp./kWh



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Number R46/2012-A-NL1-24.04 revision 0  
Project number 3706256  
Page 3 of 3

Product version		
Hardware version	S34U18 S09.Y2.J2 M20	
	S34U18 S09.Y2.J2	
Software identification	P4281 2020-08-24	checksum: F9EA
	P7473 2023-12-14	checksum: 390A

## Certificate history:

Revision	Date	Description of the modification
Initial	02-04-2024	Update of certificate R46-2012-A-NL1-21.06. Testing due to addition of communication circuits and power control relay