



OIML Member State
P. R. China



OIML Certificate No.
R46/2012-A-CN2-26.09

OIML CERTIFICATE

ISSUED UNDER SCHEME A

OIML Issuing Authority Name: National Institute of Metrology, China
Address: No.18, Bei San Huan Dong Lu, Chaoyang Dist., Beijing, P. R. China
Person responsible: Mr. Li Wentao

Applicant Name: Shenzhen Star Instrument Co., Ltd.
Address: Star Industrial Park, Baolong Industrial City, Longgang District, Shenzhen, P. R. China

Manufacturer Name: Shenzhen Star Instrument Co., Ltd.
Address: Star Industrial Park, Baolong Industrial City, Longgang District, Shenzhen, P. R. China

Identification of the certified type Single-phase Smart Energy Meter DDS26D type: STZ131
①1P2W 120 V 5(100) A 60 Hz Class B ④1P3W 120/240 V 5(100) A 60 Hz Class B
②1P2W 120 V 5(80) A 60 Hz Class B ⑤1P3W 120/240 V 5(80) A 60 Hz Class B
③1P2W 120 V 5(60) A 60 Hz Class B ⑥1P3W 120/240 V 5(60) A 60 Hz Class B
(Further characteristics on pages 2 and 3)

This OIML 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):

OIML R46-1/-2 Edition 2012

For accuracy class: **Class B (Class 1)**

This OIML Certificate relates only to metrological and technical characteristics of the type of measuring instrument covered by the relevant OIML Recommendation identified above.

This OIML 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 is 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.

OIML Issuing Authority: **National Institute of Metrology, China**

Date: 09 September 2026

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Li Wentao
Director
National Institute of Metrology, China



The conformity was established by the results of tests and examinations provided in the associated OIML type evaluation report:

No. TER-R46/2012-CN2-26.09 dated 08 September 2026 that includes 17 pages
and the associated OIML test report:

No. SIMT2026F14-41-006 dated 31 July 2026 that includes 103 pages

OIML Certificate History

Revision No.	Date	Description of the modification
0	09 September 2026	Initial issue

Characteristics of the Instrument

Meter type (electromechanical/static):	Static
Accuracy class:	Class B (Class 1)
Nominal voltage, U_{nom} :	120 V
Nominal frequency, f_{nom} :	60 Hz
Maximum current, I_{max} :	60 A, 80 A, 100 A
Transitional current, I_{tr} :	0.5 A
Minimum current, I_{min} :	0.25 A
Starting current, I_{st} :	0.02 A
Connection mode (phases, wires, elements):	Direct-connected Single phase two wires, single element
Direction of energy flow /registers:	Single-register, bi-directional
Register multiplier:	1
Meter constant:	4800 imp/kWh
Specified clock frequencies	32.768 kHz
Indoor / Outdoor:	Indoor
IP Rating:	IP54
Terminal arrangement (e.g.: BS, DIN):	BS
Insulation protection class:	II
Lower specified temperature:	-25 °C
Upper specified temperature:	+70 °C
Humidity class:	H2
Tilt / Mounting position:	Any position is allowed
Hardware version(s):	EK115-A34-MC-B2
Software version(s):	Version: V1008102 Checksum: 0EBA

Remarks: Communication interfaces: 1 optical port, 1 RS485 port

Meter type (electromechanical/static):	Static
Accuracy class:	Class B (Class 1)
Nominal voltage, U_{nom} :	120/240 V
Nominal frequency, f_{nom} :	60 Hz
Maximum current, I_{max} :	60 A, 80 A, 100 A
Transitional current, I_{tr} :	0.5 A
Minimum current, I_{min} :	0.25 A
Starting current, I_{st} :	0.02 A
Connection mode (phases, wires, elements):	Direct-connected Single phase three wires, two elements
Direction of energy flow /registers:	Single-register, bi-directional
Register multiplier:	1
Meter constant:	4800 imp/kWh
Specified clock frequencies	32.768 kHz
Indoor / Outdoor:	Indoor
IP Rating:	IP54
Terminal arrangement (e.g.: BS, DIN):	BS
Insulation protection class:	II
Lower specified temperature:	-25 °C
Upper specified temperature:	+70 °C
Humidity class:	H2
Tilt / Mounting position:	Any position is allowed
Hardware version(s):	EK115-A34-MC-B2
Software version(s):	Version: V1008102 Checksum: C4E8

Remarks: Communication interfaces: 1 optical port, 1 RS485 port