

**OIML Member State**  
The Netherlands

Number R46/2012-A-NL1-21.16  
Project number 2526311  
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Issuing authority  
Person responsible: NMi Certin B.V.  
M. Boudewijns

Applicant and  
Manufacturer  
Advanced Electronics Co. Ltd.  
KKIA Industrial Park 90916  
Riyadh 11623  
Saudi Arabia

Identification of the  
certified type  
**A measuring instrument**  
Type: A7D4B12R

Characteristics  
See page 2 and further

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) "Active electrical energy meters"**

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**  
19 March 2021

Certification Board

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The conformity was established by the results of tests and examinations provided in the associated reports:

- No. NMI-2526311-01 dated 19 March 2021 that includes 49 pages;
- No. NMI-2526311-02 dated 19 March 2021 that includes 33 pages;
- No. NMI-2526311-04 dated 19 March 2021 that includes 11 pages.

### Characteristics of the measuring instrument

In Table 1 the general characteristics of the measuring instrument are presented.

**Table 1 General characteristics**

<b>General characteristics</b>	
Meter type	static
Connection mode (phase, wires, elements)	3p, 4w, 3e
Direction of energy flow / registers	bi-directional
Terminal arrangement	DIN
Protective class	Category 2
<b>Environmental application</b>	
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 / Indoor
<b>Meter quantities</b>	
Nominal voltage ( $U_{nom}$ )	3x 133/230 V and 3x230/400 V
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
<b>Product version</b>	
Hardware version	ASSY: 800-005766-004 PCB:830-006245
Software identification	Version number: b052U00 20-08-18 Checksum: 0x1406321F