

OIML Certificate



OIML Member State The Netherlands Number R46/2012-A-NL1-20.07 revision 1 Project number 2509324 Page 1 of 3

Issuing authority Person responsible: NMi Certin B.V. M. Boudewijns

Applicant and Manufacturer Alfanar Electrical Division Alfanar industrial city New Alkharj Road 14338 Riyadh Saudi Arabia

Identification of the certified type

A **measuring instrument** Type: DTSD545-ALF

Characteristics

See page 2 and further

This OIML Certificate is issued under scheme A

В

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):

B 46-1/-2 (2012) "Active electrical energy meters"

Accuracy class

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 31 March 2021



NMi Certin B.V. Thijsseweg 11 2629 JA Delft The Netherlands T +31 88 636 2332 certin@nmi.nl www.nmi.nl This document is issued under the provision that no liability is accepted and that the applicant shall indemnify third-party liability.

Certification Board

The notification of NMi Certin B.V. as Issuing Authority can be verified at 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.











Number R46/2012-A-NL1-20.07R01 Project number 2509324 Page 2 of 3

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

- No. NMi-2509324-01a dated 30 March 2021 that includes 62 pages;
- No. NMi-2509324-02a dated 30 March 2021 that includes 13 pages.

Characteristics of the measuring instrument

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

Table 1 General characteristics

General characteristics		
Meter type	static	
Connection mode (phase, wires, elements)	3p, 4w, 3e	
Direction of energy flow / registers	bi-directional; Import Active energy (1.8.0) = $ +A1 + +A2 + +A3 $; Export Active energy (2.8.0) = $ -A1 + -A2 + -A3 $; Absolute active energy (15.8.0) = $ +A1 + +A2 + +A3 + -A1 + -A2 + -A3 $	
Terminal arrangement	BS	
Protective class	Category 2	
Environmental application		
Ambient temperature range	-40 °C to +70 °C (3k7): tested up to +75°C as a specific customer requirement	
Humidity class	H2	
IP Rating / environmental use	IP54 / indoor	
Meter quantities		
Nominal voltage (U _{nom})	3x133/230 V and 3x230/400 V	
Nominal frequency (fnom)	60 Hz	
Maximum current (I _{max})	100 A	
Transitional current (I_{tr})	$1 \text{ A} (I_{b} = 10 \text{ A})$	
Minimum current (/ _{min})	0,5 A	
Starting current (I _{st})	0,04 A	
Meter constant	1.000 imp./kWh	
Product version		
Hardware version	17-X100-01VS1.1	
Software identification	Version number: ALHWCV1-20200618 Checksum: AB66FBBE	







Number R46/2012-A-NL1-20.07R01 Project number 2509324 Page 3 of 3

Certificate history:

This revision replaces the previous version.

Revision	Date	Description of the modification
Initial	3 December 2020	-
1	31 March 2021	Editorial changes & associated report references revised.