



Australian Government
Department of Industry,
Science and Resources

National Measurement Institute

36 Bradfield Road, West Lindfield NSW 2070

General Certificate of Approval NMI 14/4/0

Issued by the Chief Metrologist under Regulation 60
of the
National Measurement Regulations 1999

This is to certify that an approval for use for trade has been granted in respect of:

Electric vehicle supply equipment (EVSE).

NOTE: This Certificate relates to the suitability of the pattern of the instrument for use for trade only in respect of its metrological characteristics. This Certificate does not constitute or imply any guarantee of compliance by the manufacturer/declarant or any other person with any requirements regarding safety.

This approval is subject to review at the decision of the Chief Metrologist in accordance with the conditions specified in the document NMI P 106.

DOCUMENT HISTORY

Rev	Reason/Details	Date
0	Pattern approved – Certificate issued	07/08/24
1	Certificate amended – Certificate issued Amendments are: <ul style="list-style-type: none">• Removed retrospectivity• Responsibility for EVSE can be manufacturer or declarant• Markings updated for DC EVSE (nominal voltage)• Added requirements for position markings• Updated sealing requirements• Removed provision for verification mark• Corrected clause numbering• Removed recommendation that class A should not be used for public EVSE• Clarified that testing is not required	12/03/26

Rev	Reason/Details	Date
2	Correction to clause 1.2 (voltage range applicable to AC and DC EVSE).	24/03/26

CONDITIONS OF APPROVAL

General

This approval is published to support the implementation of a metrological control framework for EVSE used to measure active electrical energy. This approval does not specify any requirements for electric vehicle charging stations that do not measure active electrical energy.

The requirements specified are not mandatory for EVSE manufactured before 01/04/2026.

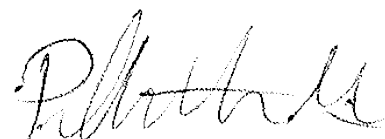
EVSE manufactured on or after 01/04/2026 and used to measure active electrical energy for trade purposes shall comply with this Certificate of Approval in all respects.

EVSE purporting to comply with this Certificate of Approval shall be marked NMI 14/4/0 in addition to the other required markings (see clause 1.2 – Markings).

It is the responsibility of the declarant (i.e. the person marking the EVSE with 'NMI 14/4/0') to ensure that all EVSE purporting to comply with this approval are constructed as described in this Certificate of Approval and Technical Schedule under NMI P 106. Failure to comply with this Condition may attract penalties under Section 19B of the *National Measurement Act 1960*.

The National Measurement Institute (NMI) reserves the right to examine any instrument or component of an instrument purporting to comply with this approval.

Signed by a person authorised by the Chief Metrologist to exercise their powers under Regulation 60 of the *National Measurement Regulations 1999*.



Phillip Mitchell
A/g Manager
Policy and Regulatory Services

TECHNICAL SCHEDULE No 14/4/0

1 Description of Pattern

Electric vehicle supply equipment (EVSE), AC or DC, used to measure active electrical energy (kWh) supplied to or from an electric vehicle.

1.1 Sealing

The EVSE shall be sealed appropriately to prevent any unauthorised access/adjustment to components which may affect the metrological performance of the EVSE without evidence.

1.2 Markings

EVSE shall be marked with the following data:

- Manufacturer's and/or declarant's name or mark
- Model
- Year of manufacture
- Serial number
- Voltage range
 - For AC EVSE, the nominal voltage/s (U_{nom})
 - For DC EVSE, the minimum and maximum output voltages
- Starting current (I_{st})
- Minimum current (I_{min})
- Transitional current (I_{tr})
- Maximum current (I_{max})
- Frequency
- Temperature range
- Minimum measured quantity (MMQ)
- Accuracy class
- Certificate of Approval No. '**NMI 14/4/0**'

Markings specified shall be positioned in a manner that is visible to a consumer, preferably in a single location.

Note: Terms such as minimum measured quantity (MMQ) are defined in *OIML G 22:2022 - Electric Vehicle Supply Equipment*.

1.3 Accuracy

The EVSE shall operate accurately within the base maximum permissible errors stated in Table 1 for the specified current ranges.

Table 1: Base maximum permissible errors

Quantity		Base maximum permissible errors (%) for class		
Current, I	Power factor	A (2%)	B (1%)	C (0.5%)
$I_{st} \leq I < I_{min}$	> 0.9	±25	±15	±10
$I_{min} \leq I < I_{tr}$	> 0.9	±2.5	±1.5	±1.0
$I_{tr} \leq I \leq I_{max}$	> 0.9	±2.0	±1.0	±0.5

The base maximum permissible errors specified in Table 1 are only applicable for EVSE tested in a laboratory environment under reference conditions.

TEST PROCEDURES No 14/4/0

If testing is required for the purposes of determining if EVSE are measuring within the applicable limits of error, accuracy testing shall be carried out individually and as described in clause 9 of *OIML G 22:2022 - Electric Vehicle Supply Equipment*.

Accuracy shall be determined at the connection point to the vehicle. The base maximum permissible errors are specified in Table 1.

Notes: There is no requirement to undertake testing or submit test results to NMI to comply with the requirements of this Certificate of Approval. There are currently no verification test procedures for EVSEs. The test procedures for verification and the maximum permissible errors for field testing will be developed in future as appropriate.