|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| GENERAL INFORMATION | | | | | | | |
| **Applicant** *(manufacturer)* | | | | | | | |
| Name | |  | | | | | |
| Contact person(s) | |  | | | | | |
| Address | |  | | | | | |
| Place | |  | | | | | |
| Country | |  | | | | | |
| **Production location** *(only if different from manufacturer)* | | | | | | | |
| Name | |  | | | | | |
| Address | |  | | | | | |
| Place | |  | | | | | |
| Country | |  | | | | | |
| PRODUCT SPECIFICATION - CHARGER | | | | | | | |
| Type designation (type name) | |  | | | | | |
| Mounting execution | | Wallbox  Ground mount | | | | | |
| Charging mode (IEC 61851-1, clause 6.2) | | mode 1  mode 2  mode 3  mode 4 | | | | | |
| Voltage input connection | | AC single phase  AC poly phase  DC  […… V] | | | | | |
| Output | | AC single phase  AC three phase   DC   AC & DC | | | | | |
| Maximum output power | | […… kW] | | | | | |
| Voltage output | | […… V] | | | | | |
| Current output range | | Maximum current: [….. A] Minimum current: [….. A] | | | | | |
| Reference frequency | | 50 Hz  60 Hz | | | | | |
| Operating temperature range | | .... °C to .... °C | | | | | |
| Accuracy class | | A  B  C | | | | | |
| Client interface | | visible display, with resolution of  1 kWh   0,1 kWh   0,01 kWh  no display | | | | | |
| Connection method | | single socket  dual socket  fixed cable(s) | | | | | |
| Connectivity | | GPRS  Ethernet  other | | | | | |
| Digital communication | | OCPP  1.6  2.0  OCMF   other | | | | | |
| External software / transparency software | |  | | | | | |
| User authorization | | RFID  Plug and charge | | | | | |
| Environmental application | | IP54  other, | | | | | |
| Charger size | |  | | | | | |
| Vehicle to grid | | yes  no | | | | | |
| PRODUCT SPECIFICATION - ELECTRICITY METERING PART | | | | | | | |
| Metering part | | built-in, own design | | separate meter | | | |
| Manufacturer | |  | |  | | | |
| Type designation (type name) | |  | |  | | | |
| MID approved | |  | | yes  no  If yes, approval number: | | | |
| Metering part has a test output: | | yes  no  If yes:  visible LED  IR LED  S0  Meter constant: [….. imp/kWh] | | | | | |
| MAIN SERVICES | | | | | | | |
| Type tests for the built-in AC metering part for the MID (2014/32/EU) Annex B, in accordance with   * EN50470-1 in conjunction with EN5470-3 * WELMEC 7.2 (type P\*, Extension I3 and L) * Immunity investigation of electromagnetic disturbances in the frequency range 2-150 kHz (conform 61000-4-19 for current only, continuous waves)   Upper temperature  +40°C  +55°C  +70°C  Lower temperature  -10°C  -25°C  -40°C  Additional WELMEC 7.2 Extensions  S (software separation)  D (software download)  \* if a USB interface is available, type U will be applicable  USB available | | | | | | |  |
| Type tests for the EV Charging System for the German Eichrecht Annex B, in accordance with   * EN50470-1 in conjunction with EN5470-3 (meter / Measuring Capsule) * WELMEC 7.2 (type U, Extension I3 and L) * Immunity investigation of electromagnetic disturbances in the frequency range 2-150 kHz (conform 61000-4-19 for current only, continuous waves) * VDE Anwendungsregel, VDE-AR-E 2418-3-100   Upper temperature  +40°C  +55°C  +70°C  Lower temperature  -10°C  -25°C  -40°C  Additional WELMEC 7.2 Extensions  S (software separation)  D (software download) | | | | | | |  |
| Type tests for the DC meter, in accordance with   * VDE Anwendungsregel, VDE-AR-E 2418-3-100, Annex A including WELMEC 7.2 * IEC 62053-41 [2021] * German Eichrecht   Upper temperature  +40°C  +55°C  +70°C  Lower temperature  -10°C  -25°C  -40°C | | | | | | |  |
| ADDITIONAL TEST SERVICES | | | | | | |  |
| IEC 62052-31 | Safety tests | | | | | |  |
| UKCA-service | UK Declaration of Conformity (expected as of Q3 2021) | | | | | |  |
| OIML R 46 | Draft Annex on EV Charging Systems | | | | | |  |
| IEC 62052-21 IEC 62054-21 | Time switch  crystal-controlled  synchronous  (Note that both can apply) | | | | | |  |
| CEN/CLC/ETSI | Penetration testing. Security testing conform the “Minimum security requirements for AMI components”  DLMS – over HDLC  DLMS – over TCP/IP  Applied security level  0 (symmetrical cryptography)  1 (asymmetrical cryptography – short keys)  2 (asymmetrical cryptography – long keys) | | | | | | |
| IEC 62443 | IEC 62443 (cyber) security for industrial automation and control systems covers all aspects playing a role in cyber security in process automation, including those applicable to field instruments and network components.  Aimed at the complete life cycle, criteria include for instance design of complete systems and quality assurance procedures on patch management. Thereby, the IEC provides independently verifiable cyber security assessment to all types of stakeholders. | | | | |  | |
| Other requests | | | | | | | | |
|  | | | | | | | | |
| SYSTEM CERTIFICATION SERVICES | | | | | | | | |
| If you want to put meters on the market in the European Union, you also need to able to perform a conformity assessment according to module D, F or H1, for both the MID (2014/32/EU) or German national legislation (Mess- und Eichrecht). NMi also provides this service. For optimal preparation of the audit it is adviced to perform a training and have a pre-audit first. | | | | | | | | |
| Training | | | | | yes  no | | | |
| Pre-audit | | | | | yes  no | | | |
| Module D audit conform MID (AC electricity meter) | | | | | yes  no | | | |
| Module D audit conform German legislation | | | | | yes  no | | | |
| MARKET INFORMATION | | | | | | | | |
| When are your samples available? | | |  | | | | | |
| Do you have a specific deadline? | | |  | | | | | |
| What are your targeted markets? | | |  | | | | | |