# Contact information

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| --- | --- | --- |
| **General** | | |
| Applicant |  | |
| Contact person(s) |  | |
| Address |  | |
| Place |  | |
| Country |  | |
| Communication | Telephone: | E-mail: |

# Product specification

|  |  |  |
| --- | --- | --- |
| **General** | | |
| Manufacturer |  | |
| Type / Model |  | |
| **Standard classification** | | |
| Class | PQI-A | PQI-S |
| Environmental application | Indoor (I) | Outdoor (O) |
| Construction | Fixed installed (F) | Portable (P) |
| EMC environment | Harsh (H) | General (G) |
| **Characteristics specification** | | |
| **Function** | **Measuring Range** | **Additional information** |
| *U*din [V] (for test) |  |  |
| *I*nom [A] (for test) |  |  |
| Max. rated input voltage [V] |  |  |
| Frequency [Hz] | 50 Hz  60 Hz |  |
| Ambient temperature  Testing states ET1 and ET3 are based on the rated range of operation (influence of temperature test) | From       °C to       °C | Rated range of operation |
| From       °C to       °C | Limit range of operation |
| Power Supply voltage  Testing states EV1 and EV2 are based on specified power supply range | From       to       VAC |  |
| From       to       VDC |  |

# Test specification

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Test** | | | | | |
| **According to IEC 62586-2 Ed 2 (2017)** | | | | **Select Test** | |
| **PQI-A** | **PQI-S** | **Functional tests** | **Test specification** | **PQI-A** | **PQI-S** |
| 6.1 | 7.1 | Power Frequency | 50 Hz  60 Hz | M | M |
| 6.2 | 7.2 | Magnitude of the supply voltage |  | M | M |
| 6.3 | 7.3 | Flicker | F1  F3  50 Hz  60 Hz  230 V  120 V | M | O |
| 6.4 | 7.4 | Supply voltage interruptions, dips and swells | 50 Hz  60 Hz | M | M |
| 6.5 | 7.5 | Supply voltage unbalance |  | M | M |
| 6.6 | 7.6 | Voltage harmonics |  | M | O |
| 6.7 | 7.7 | Voltage interharmonics |  | M | O |
| 6.8 | 7.8 | Mains signaling voltage on the supply voltage | Method 1  Method 2 | M | O |
| 6.9 | 7.9 | Measuring of underdeviation and overdeviation |  | O | O |
| 6.10 | 7.10 | Flagging concept |  | m | m |
| 6.11 | 7.11 | Clock uncertainty testing |  | m | m |
| 6.12 | 7.12 | Variation due to external influence quantities | 50 Hz  60 Hz | m | m |
| 6.13 | 7.13 | Rapid voltage changes (RVC) |  | O | O |
| 6.14 | 7.14 | Magnitude of current |  | O | O |
| 6.15 | 7.15 | Harmonic current |  | O | O |
| 6.16 | 7.16 | Interharmonic currents |  | O | O |
| 6.17 | 7.17 | Current unbalance |  | O | O |
| 8 | | Measurement uncertain |  | m | m |
| Operating uncertainty |  | m | m |
| **Additional tests according to IEC 61000-4-30 ed 3 (2015)** | | | | **PQI-A** | **PQI-S** |
| 6 | | Transient voltages IEC 61180 |  | O | O |
| Fast transients IEC61000-4-4 |  | O | O |
| NOTE M = mandatory functions according to EN 62586-1. Based on minimum functions definition in table 6 and 7 of EN 62586-1.   m = mandatory test  0 = optional function / test.  When an optional function is embedded, it shall be tested and comply with the relevant requirements of IEC 61000-4-30.  Instruments intended to work with 50 Hz and 60 Hz must be tested for both 50 Hz and 60 Hz. | | | | | |