



**TECHNISCHE
UNIVERSITÄT
DRESDEN**

Institute of Electrical Power Systems and High Voltage Engineering



**COMPLIANCE TEST ACCORDING TO
IEC 61000-4-30 Ed.3 (2015)**

PQI-DA-smart

Measurement accuracy and measurement methods for the following quantities were tested on conformity with IEC 61000-4-30 Ed.3 (2015). This includes all tests as required by IEC 62586-2 Ed.1 (2013) and specific additional tests.

Power Quality Parameter	Class A Compliance
Power frequency	Yes
Magnitude of supply voltage	Yes
Flicker	Yes
Voltage interruptions, dips and swells	Yes
Supply voltage unbalance	Yes
Voltage harmonics	Yes
Voltage interharmonics	Yes
Mains signalling	Yes
Flagging	Yes
Clock uncertainty	Yes
Variations due to external influence quantities	Yes
Rapid Voltage Changes (RVC)	Yes
Magnitude of current	Yes
Current harmonics	Yes
Current interharmonics	Yes
Current unbalance	Yes



One sample with serial 15041801 and firmware 2.999 was tested with a declared input voltage and current of $U_{\text{din}} = 230 \text{ V}$ and $I_{\text{nom}} = 2 \text{ A}$ and a nominal power frequency of $f_{\text{nom}} = 50 \text{ Hz}$. The external clock synchronization was performed with an external GPS-clock (NAVILOCK NL-8004P). The manufacturer states that this sample is representative of the PQI-DA-smart series.

Tested by:



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Reviewed by:



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