

# EMC TEST REPORT

**Type of equipment:** Inverter cathode protection station type Inverter SKZI  
**Model:** SKZI  
**Marketing name:** SKZI  
**Sub model:** N/A  
**Serial number:** 092/06  
**Applicant:** LLC 'OK BUVMATERIALY'  
**Manufacturer:** LLC 'PRIME ENERGY GROUP'  
**Test standards:** **LVS EN IEC 61000-6-2:2019**  
*Electromagnetic compatibility (EMC) - Part 6-2: Generic standards - Immunity standard for industrial environments (IEC 61000-6-2:2016) (IEC 61000-6-3:2020)*  
**LVS EN IEC 61000-6-4:2020**  
*Electromagnetic compatibility (EMC) - Part 6-4: Generic standards - Emission standard for industrial environments (IEC 61000-6-4:2018)*  
**LVS EN IEC 61000-3-2:2019**  
*Electromagnetic compatibility (EMC) - Part 3-2: Limits - Limits for harmonic current emissions (equipment input current  $\leq 16$  A per phase) (IEC 61000-3-2:2018)*  
**LVS EN 61000-3-3:2013+A1:2019+A2:2022+AC:2022**  
*Electromagnetic compatibility (EMC) - Part 3-3: Limits - Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems, for equipment with rated current  $\leq 16$  A per phase and not subject to conditional connection (IEC 61000-3-3:2013+A2:2021+COR1:2022)*  
**Test report no.:** LEITC-TR-24-028  
**Identification no.:** ID\_1463  
**Testing laboratory:** SIA LEITC  
**Result summary:** Pass

The results applies only to the sample tested, according to the carried tests, which are included in this test report.  
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**Test responsible:** Andris Dzenis  
**Laboratory responsible:** Uldis Stüre  
**Date of issue:** 09.04.2024.



## 4. SUMMARY OF TEST RESULTS

|                                                                                       |                                                                                                                                                                                                                                                                                                                          |                                                |                      |               |
|---------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|----------------------|---------------|
| <b>Standard:</b>                                                                      | <b>LVS EN IEC 61000-6-4:2020</b>                                                                                                                                                                                                                                                                                         |                                                |                      |               |
| <b>Title:</b>                                                                         | <i>Electromagnetic compatibility (EMC) - Part 6-4: Generic standards - Emission standard for industrial environments (IEC 61000-6-4:2018)</i>                                                                                                                                                                            |                                                |                      |               |
| <b>Emissions</b>                                                                      |                                                                                                                                                                                                                                                                                                                          |                                                |                      |               |
| <b>No.</b>                                                                            | <b>Measurement type</b>                                                                                                                                                                                                                                                                                                  | <b>Reference standard</b>                      | <b>Applicability</b> | <b>Result</b> |
| 1.                                                                                    | Radiated emissions (30MHz to 1GHz)                                                                                                                                                                                                                                                                                       | LVS EN IEC 61000-6-4:2020                      | Y                    | Pass          |
| 2.                                                                                    | Radiated emissions (1GHz to 6GHz)                                                                                                                                                                                                                                                                                        | LVS EN IEC 61000-6-4:2020                      | Y                    | Pass          |
| 3.                                                                                    | Conducted emissions (AC power port)                                                                                                                                                                                                                                                                                      | LVS EN IEC 61000-6-4:2020                      | Y                    | Pass          |
| <b>Notes:</b> Y- applied; N/A - not applicable.                                       |                                                                                                                                                                                                                                                                                                                          |                                                |                      |               |
| <b>Deviations from standard specification:</b> no deviations from the test standards. |                                                                                                                                                                                                                                                                                                                          |                                                |                      |               |
|                                                                                       |                                                                                                                                                                                                                                                                                                                          |                                                |                      |               |
| <b>Standard:</b>                                                                      | <b>LVS EN IEC 61000-6-2:2019</b>                                                                                                                                                                                                                                                                                         |                                                |                      |               |
| <b>Title:</b>                                                                         | <i>Electromagnetic compatibility (EMC) - Part 6-2: Generic standards - Immunity standard for industrial environments (IEC 61000-6-2:2016)</i>                                                                                                                                                                            |                                                |                      |               |
| <b>Immunity</b>                                                                       |                                                                                                                                                                                                                                                                                                                          |                                                |                      |               |
| <b>No.</b>                                                                            | <b>Measurement type</b>                                                                                                                                                                                                                                                                                                  | <b>Reference standard</b>                      | <b>Applicability</b> | <b>Result</b> |
| 1.                                                                                    | Radio frequency radiated electromagnetic field immunity                                                                                                                                                                                                                                                                  | LVS EN 61000-4-3:2006+A1:2008+IS1:2009+A2:2010 | Y                    | Pass          |
| 2.                                                                                    | Radio frequency common mode immunity                                                                                                                                                                                                                                                                                     | LVS EN 61000-4-6:2014+AC:2015                  | Y                    | Pass          |
| 3.                                                                                    | Electric fast transients/Burst                                                                                                                                                                                                                                                                                           | LVS EN 61000-4-4:2013                          | Y                    | Pass          |
| 4.                                                                                    | Voltage dips and interruptions                                                                                                                                                                                                                                                                                           | LVS EN 61000-4-11:2020+AC:2020                 | Y                    | Pass          |
| 5.                                                                                    | Surge                                                                                                                                                                                                                                                                                                                    | LVS EN 61000-4-5:2014+A1:2018                  | Y                    | Pass          |
| 6.                                                                                    | Electrostatic discharge                                                                                                                                                                                                                                                                                                  | LVS EN 61000-4-2:2009                          | Y                    | Pass          |
| 7.                                                                                    | Power frequency magnetic field                                                                                                                                                                                                                                                                                           | LVS EN 61000-4-8:2010                          | Y                    | Pass          |
| <b>Notes:</b> Y- applied; N/A - not applicable.                                       |                                                                                                                                                                                                                                                                                                                          |                                                |                      |               |
| <b>Deviations from standard specification:</b> no deviations from the test standards. |                                                                                                                                                                                                                                                                                                                          |                                                |                      |               |
|                                                                                       |                                                                                                                                                                                                                                                                                                                          |                                                |                      |               |
| <b>Standard:</b>                                                                      | <b>LVS EN IEC 61000-3-2:2019</b>                                                                                                                                                                                                                                                                                         |                                                |                      |               |
| <b>Title:</b>                                                                         | <i>Electromagnetic compatibility (EMC) - Part 3-2: Limits - Limits for harmonic current emissions (equipment input current <math>\leq 16</math> A per phase) (IEC 61000-3-2:2018)</i>                                                                                                                                    |                                                |                      |               |
| <b>Emissions</b>                                                                      |                                                                                                                                                                                                                                                                                                                          |                                                |                      |               |
| <b>No.</b>                                                                            | <b>Measurement type</b>                                                                                                                                                                                                                                                                                                  | <b>Reference standard</b>                      | <b>Applicability</b> | <b>Result</b> |
| 1.                                                                                    | Harmonic current emissions                                                                                                                                                                                                                                                                                               | LVS EN IEC 61000-3-2:2019                      | Y                    | Pass          |
| <b>Notes:</b> Y- applied; N/A - not applicable.                                       |                                                                                                                                                                                                                                                                                                                          |                                                |                      |               |
| <b>Deviations from standard specification:</b> no deviations from the test standard.  |                                                                                                                                                                                                                                                                                                                          |                                                |                      |               |
|                                                                                       |                                                                                                                                                                                                                                                                                                                          |                                                |                      |               |
| <b>Standard:</b>                                                                      | <b>LVS EN 61000-3-3:2013+A1:2019+A2:2022+AC:2022</b>                                                                                                                                                                                                                                                                     |                                                |                      |               |
| <b>Title:</b>                                                                         | <i>Electromagnetic compatibility (EMC) - Part 3-3: Limits - Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems, for equipment with rated current <math>\leq 16</math> A per phase and not subject to conditional connection (IEC 61000-3-3:2013/A2:2021/COR1:2022)</i> |                                                |                      |               |
| <b>Emissions</b>                                                                      |                                                                                                                                                                                                                                                                                                                          |                                                |                      |               |
| <b>No.</b>                                                                            | <b>Measurement type</b>                                                                                                                                                                                                                                                                                                  | <b>Reference standard</b>                      | <b>Applicability</b> | <b>Result</b> |
| 1.                                                                                    | Voltage changes, voltage fluctuations and flicker                                                                                                                                                                                                                                                                        | LVS EN 61000-3-3:2013+A1:2019+A2:2022+AC:2022  | Y                    | Pass          |
| <b>Notes:</b> Y- applied; N/A - not applicable.                                       |                                                                                                                                                                                                                                                                                                                          |                                                |                      |               |
| <b>Deviations from standard specification:</b> no deviations from the test standard.  |                                                                                                                                                                                                                                                                                                                          |                                                |                      |               |
|                                                                                       |                                                                                                                                                                                                                                                                                                                          |                                                |                      |               |

The test results relate only to the sample tested. This test report shall not be reproduced except in full, without the written approval of SIA LEITC.