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Report No.: OViS202405009E-R1

### **EMC REPORT**

Product Type:

Circulation Pump

Model No.:

DSP 15-7.5,KP 15-7.5,DP 15-7.5,XR-ECO 15-60-130,XR-PRO 15-50-130, XR-ECO 15-70-130,XR-PRO 25-60-130,XR-ECO 25-40-130, XR-PRO 25-70-130,XR-ECO 25-60-130,XR-PRO 25-80-180, XR-ECO 25-60-180,XR-PRO 32-80-180,XR-ECO 25-70-130, XR-ECO 25-70-180,XR-ECO 25-80-180,XR-ECO 32-60-180, XR-ECO 32-80-180,XR BOOS 15-90-160

Trademark:

DUCA®

Applicant:

Worimex Iklimlendirme Sistemleri Sanayi ve Ticaret A.s. Zafer Mahallesi 146.sokak No: 13A Esenyurt/istanbul

Manufacturer:

Worimex Iklimlendirme Sistemleri Sanayi ve Ticaret A.s. Zafer Mahallesi 146.sokak No: 13A Esenyurt/istanbul

Factory:

Worimex Iklimlendirme Sistemleri Sanayi ve Ticaret A.s. Zafer Mahallesi 146.sokak No: 13A Esenyurt/istanbul

Report Number:

OViS202405009E-R1

Testing Standard:

EN IEC 55014-1:2021, EN IEC 55014-2:2021, EN IEC 61000-3-2:2019+A1:2021, EN 61000-3-3:2013+A1:2019+A2:2021, BS EN IEC 55014-1:2021, BS EN IEC 55014-2:2021, BS EN IEC 61000-3-2:2019+A1:2021, BS EN 61000-3-3:2013+A1:2019+A2:2021

Date of Test:

Apr. 26,2024 to May 16,2024

Date of Report:

May 17,2024

Test Result:

Positive

Negative

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|      | OVIS-CERT | Page  | 2 of 20      | Report No.:OViS202405009E-R1 |
|------|-----------|---|--------------|------------------------------|
|      |           | Revision  | Record       |                              |
| 0412 | Version   | Description   | Date         | Remark                       |
|      | Ver.0.0   | Original  | May 17,2024  | OViS202405009E               |
| 0115 | Ver.1.0   | 1.The manufacturer<br>and factory information<br>was modified.<br>2.The trademark was<br>added. | Jun. 11,2024 | OViS202405009E-R1            |





#### 2 Test Summary

| Emission Part   | ON ON ON                              | ON ON                                  | 011 0       | n. On  |
|---|---------------------------------------|--|-------------|--------|
| ltem  | Standard                              | Method                                 | Requirement | Result |
| Harmonics On Ac Mains   | EN IEC<br>61000-3-2:2019+A1:2021      | EN IEC 61000-3-2                       | Class A     | Pass   |
| Voltage Changes, Voltage<br>Fluctuations And Flicker<br>On Ac Mains | EN 61000-3-3:2013<br>+A1:2019+A2:2021 | EN 61000-3-3:2013<br>+ A1:2019+A2:2021 | Clause 5    | Pass   |
| Conducted Emissions<br>at Mains Terminals<br>(150kHz-30MHz)         | EN IEC 55014-1:2021                   | CISPR 16-2-1                           | Table 5     | Pass   |
| Disturbance Power   |                                       | CISPR 16-2-2                           | Table 7 & 8 | Pass   |
| Radiated Emissions<br>(30MHz-1GHz)                                  | EN IEC 61000-6-<br>2:2019             | CISPR 16-2-3                           | N/A         | N/A*   |

#### **Immunity Part**

|    | ltem of  | )    | Standard            | Method | Requirement | Result |
|----|----------|------|---------------------|--------|-------------|--------|
| S. | Immunity | CHRI | EN IEC 55014-2:2021 | N/A    | N/A         | N/A*   |

N/A: Not applicable

N/A\*: Please refer to Section 7 of this report for details.

There is no EMS test requirement, since the EUT belongs to Category I of EN IEC 55014-2:2021.

#### **Declaration of EUT Family Grouping:**

Note: There are series models mentioned in this report, and they are the similar in electrical and electronic characters. Only the model XR-PRO 32-80-180 was tested since their differences were the model number and appearance.

#### Remark:

For detail, see relrbant information on General product information BS standards are identical with EN standards

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| 3        | CONTENTS   | 3            |
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| 4.2      | DESCRIPTION OF SUPPORT UNITS   | 4            |
| 4.3      | MEASUREMENT UNCERTAINTY  | é 4          |
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| CERT ON  | SCHERT ONSCHERT ONSCHERT ONSCHERT ONSCHERT ONSCHERT ONSCHERT ONSCHERT ONSCHERT ONSCHERT  |              |
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|---|--|
| General Information   |  |
| Details of E.U.T.   | Wis Wis of                             |
| Power supply: 245W  |  |
| Test voltage: 220-240V,50Hz   |  |
| Description of Support Units  |  |
| The EUT has been tested as an independent unit  |  |
| Measurement Uncertainty   |  |
| No. Item  | Measurement Uncertainty                |
|   | 2.6dB (9kHz to 150kHz)                 |
| 1 Conducted Emission at mains port using AMN  | 2.4dB (150kHz to 30MHz)                |
| 2 Conducted Emission at mains port using VP   | 1.8 dB (9kHz to 30MHz)                 |
| 3 Conducted Emission at telecommunication port using  | 4.2 dB (150kHz to 30MHz)               |
| 4 Radiated Power  | 2.3dB                                  |
|   | 4.5dB (30MHz-1GHz)                     |
| 5 Radiated Emission   | 5.1dB (1GHz-3.6GHz)                    |
| 6 Radiated Disturbance (disturbance current in a LLAS)  | 2.4dB (9kHz to 30MHz)                  |
| Note: The measurement uncertainty represents an expanded u approximately the 95% confidence level using a coverage factor                         | incertainty expressed at<br>or of k=2. |
| Test Location   |  |
| All tests were performed at:<br>OViS Testing Technology (Zhejiang) Co., Ltd.<br>Building 31, Feiyue Park, Xiachen Street, Jiaojiang District, Tai | zhou City, Zhejiang Province,          |
| China<br>Tel: 400-8008-959  |  |
| Deviation from Standards  |  |
| None  |  |
| Abnormalities from Standard Conditions  |  |
| None of other offers  | ONIS ONIS OF                           |
| Monitoring of EUT for All Immunity Test   |  |
|   |  |

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地址:浙江省台州市粮江区下陈街道飞跃科创园 31 幢 旦 www.ovis-lab.com ⊠ info@ovis-lab.com Add:Building 31, Feiyue Park, Xiachen Street, Jiaojiang District, Taizhou City, Zhejiang Province, China





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#### Equipment List

| Equipment                      | Manufacturer        | Model No               | Inventory No | Cal Date Cal | Due Date   |
|--------------------------------|---------------------|------------------------|--------------|--------------|------------|
| Harmonics and Flicker Analyzer | APS                 | ECT32-3450F<br>-M18012 | OViS-YQ124   | 2023-10-08   | 2024-10-07 |
| Conducted Emis                 | sions at Mains Terr | ninals (150kHz-3       | OMHz)        | CER CER      | CER        |
| Equipment                      | Manufacturer        | Model No               | Inventory No | Cal Date Cal | Due Date   |
| EMI test receiver              | Rohde&Schwarz       | ESR3                   | OViS-YQ125   | 2023-10-08   | 2024-10-07 |
| Artificial mains<br>network    | AFJ                 | LT32C                  | OViS-YQ126   | 2023-10-08   | 2024-10-07 |
| Shielding Room                 | Everfine            | SR-500                 | OViS-YQ127   | 2023-10-08   | 2024-10-07 |
| S                              | S.C. S.C.           | .S.CS.C.               |              |              |            |
| Radiated Emissic               | ons (30MHz-1GHz)    | 712 ON12               | 0112 01      |              |            |
| Equipment                      | Manufacturer        | Model No               | Inventory No | Cal Date Cal | Due Date   |
| EMI test receiver              | Rohde&Schwarz       | ESR3                   | OViS-YQ125   | 2023-10-08   | 2024-10-07 |
| CONTROLLER                     | Noyetec             | XTJC                   | OViS-YQ128   | 2023-10-08   | 2024-10-07 |
| ANTENNA<br>MAST                | SCHWARZBECK         | VULB9163               | OViS-YQ129   | 2023-10-08   | 2024-10-07 |
| Semi/Fully<br>Anechoic         | Noyetec             | SR-500                 | OViS-YQ130   | 2023-10-08   | 2024-10-07 |
| Dro Amplifior                  | Novetec             |                        | OViS-Y0131   | 2023-10-08   | 2024-10-07 |

| Equipment     | Manufacturer | Model No    | Inventory No | Cal Date Cal | Due Date   |
|---------------|--------------|-------------|--------------|--------------|------------|
| ESD generator | Everfine     | EMS61000-2A | OViS-YQ132   | 2023-10-08   | 2024-10-07 |
|               |              | A           |              |              | A          |

#### Electrical Fast Transients/Burst at Power Port

| Equipment       | Manufacturer | Model No    | Inventory No | Cal Date Cal | Due Date   |
|-----------------|--------------|-------------|--------------|--------------|------------|
| Burst generator | Everfine     | EMS61000-4A | OViS-YQ133   | 2023-10-08   | 2024-10-07 |
| Coupling clamp  | Everfine     | EFTC-2      | OViS-YQ134   | 2023-10-08   | 2024-10-07 |

#### Surge at Power Port

| Equipment                 | Manufacturer | Model No    | Inventory No | Cal Date Cal | Due Date   |
|---------------------------|--------------|-------------|--------------|--------------|------------|
| Lightning surge generator | Everfine     | EMS61000-5A | OViS-YQ135   | 2023-10-08   | 2024-10-07 |

# Conducted Immunity at Power Port (150kHz-80MHz) Equipment Manufacturer Model No Inventory No Cal Date Cal Due Date

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|-------------|--|--|--|---|
|             | Page 7 of 2  | 0 UISCERT OUF  | Report No.:OViS2   | 202405009E-R1   |
| Rigol       | DSG821   | OViS-YQ136   | 2023-10-08   | 2024-10-07  |
| Noyetec     | NYPA<br>0123-100   | OViS-YQ137   | 2023-10-08   | 2024-10-07  |
| Noyetec     | ATT01  | OViS-YQ138   | 2023-10-08   | 2024-10-07  |
| SCHWARZBECK | CDN M2/M3  | OViS-YQ139   | 2023-10-08   | 2024-10-07  |
| Noyetec     | SR100-6W   | OViS-YQ140   | 2023-10-08   | 2024-10-07  |
| Everfine    | SR-500   | OViS-YQ127   | 2023-10-08   | 2024-10-07  |
| SCHWARZBECK | CDN M4PE   | OViS-YQ141   | 2023-10-08   | 2024-10-07  |
|             | Rigol<br>Noyetec<br>Noyetec<br>SCHWARZBECK<br>Noyetec<br>Everfine<br>SCHWARZBECK | RigolDSG821NoyetecNYPA<br>0123-100NoyetecATT01SCHWARZBECKCDN M2/M3NoyetecSR100-6WEverfineSR-500SCHWARZBECKCDN M4PE | Page 7 of 20RigolDSG821OViS-YQ136NoyetecNYPA<br>0123-100OViS-YQ137NoyetecATT01OViS-YQ138SCHWARZBECKCDN M2/M3OViS-YQ139NoyetecSR100-6WOViS-YQ140EverfineSR-500OViS-YQ127SCHWARZBECKCDN M4PEOViS-YQ141 | Page 7 of 20         Report No.:OVIS2           Rigol         DSG821         OVIS-YQ136         2023-10-08           Noyetec         NYPA<br>0123-100         OVIS-YQ137         2023-10-08           Noyetec         ATT01         OVIS-YQ138         2023-10-08           SCHWARZBECK         CDN M2/M3         OVIS-YQ139         2023-10-08           Noyetec         SR100-6W         OVIS-YQ140         2023-10-08           Everfine         SR-500         OVIS-YQ127         2023-10-08           SCHWARZBECK         CDN M4PE         OVIS-YQ141         2023-10-08 |

#### Voltage Dips and Interruptions

| Equipment                                   | Manufacturer | Model No          | Inventory No | Cal Date Cal | Due Date   |
|---|--------------|-------------------|--------------|--------------|------------|
| Three-phase<br>cycle drop<br>generator      | Everfine     | EMS61000-11<br>CA | OViS-YQ142   | 2023-10-08   | 2024-10-07 |
| Coupling and<br>Decoupling<br>Network (CDN) | Everfine     | CDNI-3A           | OViS-YQ143   | 2023-10-08   | 2024-10-07 |
| Manual step<br>transformer                  | Everfine     | SG-15KVA          | OViS-YQ144   | 2023-10-08   | 2024-10-07 |

| <b>Radiated Immun</b> | ity (80MHz | -3.6GHz) | 0         |
|-----------------------|------------|----------|-----------|
| $\hat{a}$             | à          | 2        | à         |
| Equipment             | Monufe     | oturor   | Model No. |

| Equipment                      | Manufacturer | Model No     | Inventory No | Cal Date Cal | Due Date   |
|--------------------------------|--------------|--------------|--------------|--------------|------------|
| Signal generator               | Rigol        | DSG836       | OViS-YQ145   | 2023-10-08   | 2024-10-07 |
| Antenna                        | SCHWARZBECK  | VUSLP9111E   | OViS-YQ146   | 2023-10-08   | 2024-10-07 |
| Amplifier                      | Noyetec      | NYPA0810-200 | OViS-YQ147   | 2023-10-08   | 2024-10-07 |
| Power meter sensor             | PMM          | EP601        | OViS-YQ148   | 2023-10-08   | 2024-10-07 |
| ElectroMagnetic<br>Field Probe | Ceyear       | 87230        | OViS-YQ149   | 2023-10-08   | 2024-10-07 |
| Shielding Room                 | Everfine     | SR-500       | OViS-YQ127   | 2023-10-08   | 2024-10-07 |

#### General used equipment

| and the second s |  |   |   |   |
|--|--|---|---|---|
| Manufacturer   | Model No   | Inventory No  | Cal Date Cal  | Due Date  |
| YIOU   | DPH-103  | OViS-YQ073  | 2023-10-08  | 2024-10-07  |
| Dongguan Jinghe<br>Electronic<br>Technology Co.,<br>Ltd  | MC501  | OViS-YQ095  | 2023-10-08  | 2024-10-07  |
| Fluke  | 319  | OViS-YQ012  | 2023-10-08  | 2024-10-07  |
|  | Manufacturer<br>YIOU<br>Dongguan Jinghe<br>Electronic<br>Technology Co.,<br>Ltd<br>Fluke | ManufacturerModel NoYIOUDPH-103Dongguan Jinghe<br>Electronic<br>Technology Co.,<br>LtdMC501Fluke319 | ManufacturerModel NoInventory NoYIOUDPH-103OViS-YQ073Dongguan Jinghe<br>Electronic<br>Technology Co.,<br>LtdMC501OViS-YQ095Fluke319OViS-YQ012 | ManufacturerModel NoInventory NoCal Date CalYIOUDPH-103OViS-YQ0732023-10-08Dongguan Jinghe<br>Electronic<br>Technology Co.,<br>LtdMC501OViS-YQ0952023-10-08Fluke319OViS-YQ0122023-10-08 |

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|-----------|---|
| 6         | Emission Test Results   |
| 6.1       | Harmonics on AC Mains   |
| (A)       | Test Requirement: EN IEC 61000-3-2:2019+A1:2021                     |
| ST        | Test duration:2.5min  |
| 03        | Harmonic order:2-40th   |
| Ser c     | Frequency Range: 0-2 kHz  |
| 0415      | Equipment category:Class A  |
| 6.1.1     | E.U.T. Operation  |
| is is     | Operating Environment:  |
| ~ ~ ~     | Temperature: 22°C Humidity: 51 % RH Atmospheric Pressure: 1020 mbar |
| den de    | Test mode :Normal Working_keep EUT running continual .              |
| 6.1.2     | Harmonic currents measurement result                                |
| 613       | Test Setup Diagram  |



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# OVIS-GERT OVIS-C Current Harmonics (values at the end of test)

| Hn<br>(n) | Harms<br>(avg)<br>(A) | Harm. Limit<br>(100%)<br>(A) | % Of Limits | Harms<br>(max)<br>(A) | Harm. Limit<br>(150%)<br>(A) | % Of Limits | Result |
|-----------|-----------------------|------------------------------|-------------|-----------------------|------------------------------|-------------|--------|
| 2         | 0.0012                | 1.0800                       | N/A         | 0.0017                | 1.6200                       | N/A         | Pass   |
| 3         | 0.0031                | 2.3000                       | 1.48        | 0.0033                | 3.4500                       | 1.00        | Pass   |
| 4 5       | 0.0005                | 0.4300                       | N/A         | 0.0006                | 0.6450                       | N/A         | Pass   |
| 5         | 0.0500                | 1.1400                       | 4.39        | 0.0508                | 1.7100                       | 2.97        | Pass   |
| 6         | 0.0003                | 0.3000                       | N/A         | 0.0005                | 0.4500                       | N/A         | Pass   |
| 8 7 8     | 0.0022                | 0.7700                       | 1.40        | 0.0025                | 1.1550                       | 0.98        | Pass   |
| 8         | 0.0002                | 0.2300                       | ି N/A ୍ଚ୍ଚି | 0.0003                | 0.3450                       | S N/A       | Pass   |
| 9         | 0.0014                | 0.4000                       | N/A         | 0.0015                | 0.6000                       | N/A 🔍       | Pass   |
| x 10 x    | 0.0002                | 0.1840                       | N/A         | 0.0003                | 0.2760                       | N/A         | Pass   |
| 11 5      | 0.0016                | 0.3300                       | N/A         | 0.0018                | 0.4950                       | N/A         | Pass   |
| 12        | 0.0002                | 0.1533                       | N/A         | 0.0002                | 0.2300                       | N/A         | Pass   |
| 13        | 0.0011                | 0.2100                       | N/A         | 0.0012                | 0.3150                       | N/A         | Pass   |
| 14        | 0.0002                | 0.1314                       | N/A         | 0.0002                | 0.1971                       | N/A         | Pass   |
| 15        | 0.0009                | 0.1500                       | N/A         | 0.0010                | 0.2250                       | N/A 🔬       | Pass   |
| 16        | 0.0008                | 0.1150                       | N/A         | 0.0008                | 0.1725                       | N/A         | Pass   |
| S 17 S    | 0.0042                | 0.1324                       | N/A         | 0.0043                | 0.1985                       | N/A         | Pass   |
| 18        | 0.0005                | 0.1022                       | 5 N/A 5     | 0.0005                | 0.1533                       | S N/A       | Pass   |
| 19        | 0.0064                | 0.1184                       | 7.60        | 0.0065                | 0.1776                       | 5.12 🕥      | Pass   |
| 20        | 0.0009                | 0.0920                       | N/A         | 0.0009                | 0.1380                       | N/A         | Pass   |
| 21        | 0.0006                | 0.1071                       | N/A         | 0.0007                | 0.1607                       | N/A         | Pass   |
| 22        | 0.0004                | 0.0836                       | N/A         | 0.0004                | 0.1255                       | N/A         | Pass   |
| 23        | 0.0007                | 0.0978                       | N/A         | 0.0009                | 0.1467                       | N/A         | Pass   |
| 24 📈      | 0.0003                | 0.0767                       | N/A         | 0.0004                | 0.1150                       | N/A         | Pass   |
| 25        | 0.0012                | 0.0900                       | N/A         | 0.0014                | 0.1350                       |             | Pass   |
| 26        | 0.0001                | 0.0708                       | N/A         | 0.0002                | 0.1062                       | N/A         | Pass   |
| 8 27      | 0.0002                | 0.0833                       | N/A         | 0.0002                | 0.1250                       | N/A         | Pass   |
| 28        | 0.0001                | 0.0657                       | N/A S       | 0.0001                | 0.0986                       | S N/A       | Pass   |
| 29        | 0.0003                | 0.0776                       | N/A         | 0.0003                | 0.1164                       | 6 N/A 0     | Pass   |
| 30        | 0.0001                | 0.0613                       | N/A         | 0.0001                | 0.0920                       | N/A         | Pass   |
| 31        | 0.0003                | 0.0726                       | N/A         | 0.0003                | 0.1089                       | N/A         | Pass   |
| 32        | 0.0001                | 0.0575                       | N/A         | 0.0001                | 0.0863                       | N/A 🔊       | Pass   |
| 33        | 0.0001                | 0.0682                       | N/A         | 0.0001                | 0.1023                       | N/A         | Pass   |
| 34 🟑      | 0.0001                | 0.0541                       | N/A         | 0.0001                | 0.0812                       | N/A         | Pass   |
| 35        | 0.0002                | 0.0643                       | ି N/A ୍ଚି   | 0.0002                | 0.0964                       |             | Pass   |
| 36        | 0.0001                | 0.0511                       | N/A         | 0.0001                | 0.0767                       | N/A         | Pass   |
| 8 37 8    | 0.0002                | 0.0608                       | N/A         | 0.0003                | 0.0912                       | N/A         | Pass   |
| 38        | 0.0001                | 0.0484                       | N/A         | 0.0001                | 0.0726                       | N/A         | Pass   |
| 39        | 0.0001                | 0.0577                       | N/A         | 0.0001                | 0.0865                       | N/A 🔊       | Pass   |
| Á 40 á    | 0.0001                | 0.0460                       | N/A         | 0.0001                | 0.0690                       | N/A         | Pass   |

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## OVIS-CERT OVIS-C OVIS-CERT OVIS-C Power Source Verification Data

| Verification | Data                                    |           |             |          |  |
|--------------|---|-----------|-------------|----------|--|
| Harm No.     | Harm. Value<br>% Of Limits              | Limits(%) | % Of Limits | Result   |  |
| SP.          | and |           |             | (i       |  |
| 2            | 0.01%                                   | 0.20      | 5.76%       | Pass     |  |
| 030          | 0.01%                                   | 0.90      | 1.37%       | Pass     |  |
| 4            | 0.01%                                   | 0.20      | 4.73%       | Pass     |  |
| 5            | 0.01%                                   | 0.40      | 1.56%       | Pass     |  |
| 7 0          | 0.00%                                   | 0.20      | 1.03%       | Pass     |  |
| 8.0          | 0.01%                                   | 0.30      | 1.73%       | Pass     |  |
| 0            | 0.00%                                   | 0.20      | 2.20 %      | Pass     |  |
| 10           | 0.01%                                   | 0.20      | 4.21%       | Pass     |  |
| 11 2         | 0.01%                                   | 0.20      | 4 02%       | Pass     |  |
| 12           | 0.00%                                   | 0.10      | 5.97%       | Pass     |  |
| 13           | 0.01%                                   | 0.10      | 7.53%       | Pass     |  |
| 14           | 0.00%                                   | 0.10      | 3.35%       | Pass     |  |
| 15           | 0.01%                                   | 0.10      | 7.89%       | Pass     |  |
| 16           | 0.00%                                   | 0.10      | 2.31%       | Pass     |  |
| 17           | 0.01%                                   | 0.10      | 7.82%       | Pass     |  |
| 18           | 0.00%                                   | 0.10      | 1.76%       | Pass     |  |
| 19           | 0.01%                                   | 0.10      | 10.15%      | Pass     |  |
| 20           | 0.00%                                   | 0.10      | 1.68%       | S Pass S |  |
| <u> </u>     | 0.01%                                   | 0.10      | 12.38%      | Pass     |  |
| 22           | 0.00%                                   | 0.10      | 1.60%       | Pass     |  |
| 23           | 0.01%                                   | 0.10      | 12.00%      | Pass     |  |
| 24           | 0.00%                                   | 0.10      | 1.69%       | Pass     |  |
| 25           | 0.01%                                   | 0.10      | 11.01%      | Pass     |  |
| 26           | 0.00%                                   | 0.10      | 1.73%       | Pass     |  |
| 27           | 0.01%                                   | 0.10      | 10.57%      | Pass     |  |
| 0 28 0       | 0.00%                                   | 0.10      | 1.76%       | Pass     |  |
| 29           | 0.01%                                   | 0.10      | 10.06%      | Pass     |  |
| 30           | 0.00%                                   | 0.10      | 1.84%       | Pass     |  |
| 31           | 0.01%                                   | 0.10      | 9.12%       | Pass     |  |
| 32           | 0.00%                                   | 0.10      | 1.87%       | Pass     |  |
| 33           | 0.01%                                   | 0.10      | 9.45%       | Pass     |  |
| 34           | 0.00%                                   | 0.10      | 1.92%       | Pass     |  |
| 36 4         | 0.01%                                   | 0.10      | 9.04%       | Pass     |  |
| 37           | 0.00%                                   | 0.10      | 10.76%      | Pass     |  |
| 38           | 0.01%                                   | 0.10      | 2 14%       | Pass     |  |
| 39           | 0.00%                                   | 0.10      | 11 84%      | Pass     |  |
| 40           | 0.01%                                   | 0.10      | 2 18%       | Pass     |  |
|              |   | 0.10      | 2.10%       | Contra d |  |

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|-----------|--|
| 6.2       | Voltage changes, voltage fluctuations and flicker on AC mains  |
| ovis ovis | Test Requirement:EN 61000-3-3:2013+A1:2019+A2:2021           Test Method:EN 61000-3-3: 2013+ A1:2019+A2:2021 |
| 6.2.1     | E.U.T. Operation   |
| 5         | Operating Environment:   |
| ~ 0*      | Temperature: 22°C Humidity: 51 % RH Atmospheric Pressure: 1020 mbar  |
| Still 2   | Test mode :Normal Working_keep EUT running continual .   |
| 6.2.2     | Following are the measurement results obtained via an automatic testing system                               |
| 6.2.3     | Test Setup Diagram   |



6.2.4 Measurement Procedure and Data WIS-CERT OVIS-CE **Maximum Flicker results** 

| Wish Wish Wish                                | EUT values<br>phase A | O <sup>VISIO</sup> Limit | Wisich Wisich  |
|---|-----------------------|--------------------------|----------------|
| T-max [s]                                     | 0.00                  | 0.50                     | ER ER          |
| dmax [%]                                      | 0.00                  | 4.00                     | NIST NIST      |
| dc [%]  | 0.00                  | 3.30                     |                |
| P <sub>st</sub>                               | 0.026                 | 1.0                      | .5 5 .5 5      |
| P <sub>it</sub> o <sup>N</sup> o <sup>N</sup> | 0.020                 | 0.65                     | 34 04          |
| NI OVISCERI OVISCERI OVIS                     |                       | N' OVISCERI OVISCERI     | WISCERI OVISCE |
|   | OHRI OVISCERI OVISCER |                          |                |
|   |                       |                          |                |

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| 6.3                                    | Conducted Emissions at Mains Terminals (150kHz-30MHz)   |
|--|---|
| San Sie                                | Test Requirement: EN IEC 55014-1:2021   |
| ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ | Test Method: CISPR 16-2-1   |
| SET                                    | Frequency Range: 150kHz to 30MHz  |
| CERT OVIS                              | Limit: $0.15M-0.5MHz$ $66dB(\mu V)$ - $56dB(\mu V)$ quasi-peak, $59dB(\mu V)$ - $46dB(\mu V)$ average $0.5M-5MHz$ $56dB(\mu V)$ quasi-peak, $46dB(\mu V)$ average $5M-30MHz$ $60dB(\mu V)$ quasi-peak, $50dB(\mu V)$ averageDetector:Peak for pre-scan (9kHz resolution bandwidth) 0. 15M to 30MHz  |
| 6.3.1                                  | E.U.T. Operation  |
| 0,                                     | Operating Environment:  |
| SCR.                                   | Temperature: 22°C Humidity: 51 % RH Atmospheric Pressure: 1020 mbar   |
| OVIS                                   | Test mode :Normal Working_keep EUT running continual .  |
| 6.3.2                                  | Test Setup Diagram  |
| ERI OVISI                              | Shielding Room  |
| ERI OVIS                               | Shielding Room  |
| ERI OVIS                               | Shielding Room<br>Test Receiver<br>Test |
| 6.3.3                                  | Shielding Room         Image: Constrained on the second of the second o   |
| 6.3.3                                  | Shielding Room         Image: Constrained state sta   |
| 6.3.3                                  | Shielding Room       Test Receiver         Image: Comparison of the system       Image: Comparison of the system         Image: Comparison of the system       Image: Comparison of the system         Measurement Data       An initial pre-scan was performed with peak detector. Quasi-Peak or Average measurement were performed at the frequencies with maximized peak emission were detected  |
|  | Shielding Room       Test Receiver         Image: Comparison of the sector o  |
|  | Shielding Room       Test Receiver         Image: Comparison of the sector o  |
| CERT OUTS                              | Shielding Room       Test Receiver         Image: constraint of the state of the s  |
| CERT OUTS                              | Shielding Room         Image: Constraint of the second se   |
| CERT OVIS                              | Shielding Room       Test Receiver         Image: Count Reference Plane       Image: Count Reference Plane         Measurement Data       An initial pre-scan was performed with peak detector. Quasi-Peak or Average measurement were performed at the frequencies with maximized peak emission were detected  |
| CERT OVIS                              | Shielding Room       Test Receiver         Image: Comparison of the second s  |
|  | Shielding Room       Test Receiver         Image: Comparison of the second s  |





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|   | No.  | Frequency<br>(MHz) | Reading<br>(dBuV) | Factor<br>(dB)     | Level<br>(dBuV) | Limit<br>(dBuV) | Margin<br>(dB)       | Detector | P/F |     |
|---|------|--------------------|-------------------|--------------------|-----------------|-----------------|----------------------|----------|-----|-----|
| 3 | 1    | 1.1060             | 13.50             | 10.80              | 24.30           | 56.00           | -31.70               | QP       | Р   | 10  |
|   | 2    | 1.1060             | 11.03             | 10.80              | 21.83           | 46.00           | -24.17               | AVG      | Р   |     |
|   | 3    | 4.5980             | 11.44             | 10.98              | 22.42           | 56.00           | -33.58               | QP       | Р   |     |
| 0 | 4    | 4.5980             | -0.19             | 10.98              | 10.79           | 46.00           | -35.21               | AVG      | Р   | 011 |
|   | 5    | 6.1460             | 22.63             | 10.98              | 33.61           | 60.00           | -26.39               | QP       | Р   |     |
| ſ | 6    | 6.1460             | 10.37             | 10.98              | 21.35           | 50.00           | -28.65               | AVG      | Р   |     |
| 0 | 7    | 9.4620             | 24.44             | 11.16              | 35.60           | 60.00           | -24.40               | QP       | Р   | 04  |
|   | 8    | 9.4620             | 11.95             | 11.16              | 23.11           | 50.00           | -26.89               | AVG      | Р   |     |
|   | 9    | 11.2460            | 23.34             | <mark>11.25</mark> | 34.59           | 60.00           | -25. <mark>41</mark> | QP       | Р   |     |
| 0 | 10 * | 11.2460            | 16.12             | 11.25              | 27.37           | 50.00           | -22.63               | AVG      | Р   | 0%  |
| ſ | 11   | 29.1140            | <mark>5.94</mark> | 12.58              | 18.52           | 60.00           | -41.48               | QP       | Р   |     |
|   | 12   | 29.1140            | 0.10              | 12.58              | 12.68           | 50.00           | -37.32               | AVG      | Р   |     |
| 0 |      | 0. 0.              | 0                 | 0.                 | 0               | 0.              | 0                    | 0.       |     | 0,  |

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Notes:Measure-Ment=Reading Level+Factor

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| 0 | No. | Frequency<br>(MHz) | Reading<br>(dBuV) | Factor<br>(dB)     | Level<br>(dBuV)     | Limit<br>(dBuV) | Margin<br>(dB) | Detector | P/F | 0,   |
|---|-----|--------------------|-------------------|--------------------|---------------------|-----------------|----------------|----------|-----|------|
|   | 1   | 1.1060             | 13.51             | 10.89              | 24.40               | 56.00           | -31.60         | QP       | Р   | Jie  |
|   | 2   | 1.1060             | 11.06             | 10.89              | 21.95               | 46.00           | -24.05         | AVG      | Ρ   | 0    |
|   | 3   | 4.7260             | 11.68             | 11.11              | 22.79               | 56.00           | -33.21         | QP       | Ρ   |      |
| 3 | 4   | 4.7260             | 0.23              | 11.11              | 11.3 <mark>4</mark> | 46.00           | -34.66         | AVG      | Р   | Nis  |
|   | 5   | 6.0939             | 22.32             | 11.11              | 33.43               | 60.00           | -26.57         | QP       | Ρ   |      |
|   | 6   | 6.0939             | 10.03             | <mark>11.11</mark> | 21.14               | 50.00           | -28.86         | AVG      | Ρ   |      |
| 6 | 7 * | 9.4060             | 25.28             | 11.29              | 36.57               | 60.00           | -23.43         | QP       | Ρ   | 0113 |
|   | 8   | 9.4060             | 12.75             | 11.29              | 24.04               | 50.00           | -25.96         | AVG      | Р   |      |
|   | 9   | 10.4740            | 20.58             | 11.35              | 31.93               | 60.00           | -28.07         | QP       | Ρ   |      |
| 0 | 10  | 10.4740            | 13.17             | 11.35              | 24.52               | 50.00           | -25.48         | AVG      | Р   | 0410 |
|   | 11  | 23.8340            | 6.14              | 12.35              | 18. <b>4</b> 9      | 60.00           | -41.51         | QP       | Р   |      |
|   | 12  | 23.8340            | -0.02             | 12.35              | 12.33               | 50.00           | -37.67         | AVG      | Ρ   | .0   |
| 0 |     | 0° 0°              | 07.               | 04.                | 0%.                 | 04.             | 0%             | 07       |     | 0110 |

Notes:Measure-Ment=Reading Level+Factor

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| 6.4        | Disturbance Power  |
|------------|--|
| Visi       | Test Requirement: EN IEC 55014-1:2021  |
|            | Test Method: CISPR 16-2-2  |
|            | Frequency Range: 150kHz to 30MHz   |
| AT OWNS    | Limit:<br>30MHz - 300MHz<br>200MHz - 300MHz<br>45dB(pW)-55dB(pW) quasi-peak, 35dB(pW)-45dB(pW) average<br>0dB(pW)-10dB(pW) quasi-peak (reduction limit)  |
| 0415-0     | Detector:<br>Peak for pre-scan (120kHz resolution bandwidth) 30MHz to 300MHz   |
| 6.4.1      | E.U.T. Operation   |
| OVIS       | Operating Environment:   |
|            | Temperature: 22°C Humidity: 51 % RH Atmospheric Pressure: 1020 mbar  |
| ·          | Test mode :Normal Working_keep EUT running continual .   |
| 6.4.2      | Test Setup Diagram   |
| ERT OVISOF | Shielding Room   |
|            | Ground Plane   |
| n di       |  |
| 6.4.3      | Measurement Data   |
|            | Frequency Range: 30MHz to 300MHz   |
| AT WISCO   | An initial pre-scan was performed with peak detector.Quasi-Peak or Average measurement were performed at the frequencies with maximized peak emission were detected.The red line show in graphic is the limit in standard used in this section.<br>Measured Level = Read level + Cable Loss + Clamp Factor |
| OVISI      |  |
|            |  |

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|---|-----|----------|--------|------|--------|--------|--------|----------|----|
| 2 | 4   | 297.1600 | 0.57   | 7.96 | 8.53   | 44.89  | -36.36 | AVG      | 2  |
| 2 | 3   | 297.1600 | 7.68   | 7.96 | 15.64  | 45.18  | -29.54 | QP       |    |
|   | 2 * | 32.7599  | 10.11  | 9.18 | 19.29  | 35.10  | -15.81 | AVG      |    |
| 0 | 1   | 32.7599  | 17.88  | 9.18 | 27.06  | 45.10  | -18.04 | QP       | 0, |
|   | No. | (MHz)    | (dBuV) | (dB) | (dBpW) | (dBpW) | (dB)   | Detector |    |

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Notes:Measure-Ment=Reading Level+Factor

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|       | Page 17 of 20 Report No :0\/i\$202405009E-R1  |
|-------|---|
| 0     | Radiated Emissions (30MHZ-1GHz)   |
| OVIS' | Test Requirement: EN IEC 55014-1:2021   |
|       | Test Method: CISPR 16-2-3   |
|       | Frequency Range: 30MHz to 1GHz  |
| OVIS  | Limit:<br>30MHz - 230MHz 50 dB(µV/m) quasi-peak<br>230MHz - 1GHz 57 dB(µV/m) quasi-peak |
|       | Detector:<br>Peak for pre-scan (120kHz resolution bandwidth) 30MHz to 1000MHz           |

"The EUT shall be also deemed to comply with the requirement of this document in the frequency range from 300 MHz to 1000 MHz without further testing if both conditions 1 )and 2 ) below are fulfilled :' 1) :the disturbance power emission from the EUT is lower than the limits of Table 7reduced by the values of Table 8

2) : the maximum clock frequency shall be less than 30MHz

Because the EUT meets the two conditions mentioned above . the EUT is deemed to meet the radiated requirements without actual testing 04

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## 7 Immunity Test Results Test Requirement: EN IEC 55014-2:2021

Test Requirement: EN IE Test Method: N/A

Remark: There is no need for immunity tests to be performed on this product in accordance with clause 7.2.2 of EN IEC 55014-2 which states:

"Category I equipment is deemed to comply with the immunity requirements of this document without testing."

For further details, please refer to clause 4.2 of EN IEC 55014-2 which states:

"Category I: equipment containing no electronic control circuitry.

EXAMPLES Appliances, tools and toys that contain no electronic control circuits and only electromechanical components such as switches, thermostats, brush motors, induction motors, heating elements, lighting toys containing only batteries and LED.

Electrical circuits consisting of passive components (such as radio interference suppression capacitors or inductors, mains transformers, mains frequency rectifiers) are not considered to be electronic control circuitry."

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#### REMARKS

1. This report is invalid without the seal of special stamp for OViS test report and invalid if altered.

2. The copy of this report is invalid without a new seal of special stamp for OViS test report and invalid if altered.

3. This report is invalid without seals or signatures of Tester, Checker and Approval.

4. If there is no special announcement in this report, the informat ion of producer and samples is not identified by OViS, the customer is responsible for truth of the samples.

5. Objections to the test report must be submitted to OViS within 15 days.

6. The test results shown in this report is only applicable for the samples supplied directly by the customer and accepted by the test organization, the customer shall not propagandize improperly without permission by OViS.

7. "P" means "pass", "F" means "fail", "N/A" or "—" means "not applicable" and " / "means "not test".

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