



IECEX Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.: **IECEX CQM 23.0029X** Page 1 of 3 [Certificate history:](#)

Status: **Current** Issue No: 0

Date of Issue: 2023-12-05

Applicant: **mPower Electronics, Inc.**
2910 Scott Blvd.,
Santa Clara, CA 95054
United States of America

Equipment: **VOXI Fixed gas detector typed MP8** series**

Optional accessory:

Type of Protection: **Flameproof enclosure "db", Intrinsic safety "ia", Dust ignition protection by enclosure "tb"**

Marking: LEL or NDIR sensor without wireless function:
Ex db IIC T6 Gb, Ex tb IIIC T80°C Db
LEL or NDIR sensor with wireless function:
Ex db ia IIC T6 Gb, Ex ia tb IIIC T80°C Db
EC sensor with or without wireless function:
Ex db ia IIC T6 Gb, Ex ia tb IIIC T80°C Db

Approved for issue on behalf of the IECEx
Certification Body:

Ji Xiaodong

Position:

President

Signature:
(for printed version)

Date:
(for printed version)

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting www.iecex.com or use of this QR Code.



Certificate issued by:

China Quality Mark Certification Group Co., Ltd.
No. 33 Zengguang Road, Haidian District
Beijing City, Postal code: 100048
China





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Manufacturer: **mPower Electronics (Shanghai) Co., Ltd.**
Building 2, 66 Chunzhong Road
Minhang District
Shanghai 201108
China

Manufacturing locations: **mPower Electronics (Shanghai) Co., Ltd.**
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Minhang District
Shanghai 201108
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This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEX Quality system requirements. This certificate is granted subject to the conditions as set out in IECEX Scheme Rules, IECEX 02 and Operational Documents as amended

STANDARDS :

The equipment and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards

[IEC 60079-0:2017](#) Explosive atmospheres - Part 0: Equipment - General requirements
Edition:7.0

[IEC 60079-1:2014](#) Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
Edition:7.0

[IEC 60079-11:2011](#) Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
Edition:6.0

[IEC 60079-31:2013](#) Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"
Edition:2

This Certificate **does not** indicate compliance with safety and performance requirements other than those expressly included in the Standards listed above.

TEST & ASSESSMENT REPORTS:

A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in:

Test Report:

[CN/CQM/ExTR23.0040/00](#)

Quality Assessment Report:

[CN/NEP/QAR18.0006/03](#)



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

MP8** series is an intelligent gas detector with integral burst-proof structure, intelligent sensor detection technology and fixed installation. The upper and lower shell of the equipment are made of aluminum alloy. There are four 3/4 NPT threaded entry on the housing which are used to installed with cable gland, blanking element and an intrinsic safety antenna. For equipment with LEL or NDIR module, an M28x1.5 thread is used to connected with the LEL sensor compartment. For equipment with EC sensor module, the module is connected to the main board via a built-in safety barrier. The antenna for MP82* and MP84* is designed as Intrinsic safety antenna which is isolated from main board by blocking capacitors.

Um=30V DC, Maximum range of voltage:10~30V DC, Max. 3W.

Normenclature:

For fixed gas detector,

MP8 a b, where

"a" indicates Sensor type, which can be

2 LEL or NDIR sensor

4 EC sensor

"b" indicates function description which does not related to explosion protection properties.

SPECIFIC CONDITIONS OF USE: YES as shown below:

1. Contact the original manufacturer for information on the dimensions of the flameproof joints.
2. During the installation and operation in explosive gas atmosphere, the cable glands comply with IEC 60079-0 Ed 7, IEC 60079-1 Ed7 with size of 3/4 NPT shall be used.
3. During the installation and operation in combustible dust atmosphere, the cable glands comply with IEC 60079-0 Ed 7, IEC 60079-31 Ed 2 with size of 3/4 NPT shall be used.
4. During the installation and operation, observe the warning "WARNING-DO NOT OPEN WHEN AN EXPLOSIVE ATMOSPHERE IS PRESENT." and "WARNING-POTENTIAL ELECTROSTATIC CHARGING HAZARD IN EXPLOSIVE DUST ATMOSPHERES-SEE INSTRUCTIONS."
5. Service temperature at the entry point may higher than 75°C, use proper cable during installation.