

Certificate CN16/31256

The management system of

Avary Holding (Shenzhen) Co., Ltd.

Unified Social Credit Code 9144030070855050X9

Business Registration Address: No. A1~A3 Factory, Avary Park, Songluo Road,
Yanchuan Community, Yanluo Sub-District, Baoan District,
Shenzhen City, Guangdong Province, P.R. China

Business Operation Address: Avary Park, Songluo Road, Yanchuan Community,
Yanluo Sub-District, Baoan District, Shenzhen City, Guangdong Province, P.R. China



has been assessed and certified as meeting the requirements of

ISO 50001:2018 RB/T 101-2013

For the following activities

Management of the purchasing, receiving/storage, processing and transformation, distribution and consumption of energy, in addition to application of energy saving technology, in design, production and assembly of printing circle boards. Electricity is the major source of energy.

For the detail information regarding boundaries and comprehensive energy consumption, please see the appendix with the same number of this certificate and it is the component of this certificate.

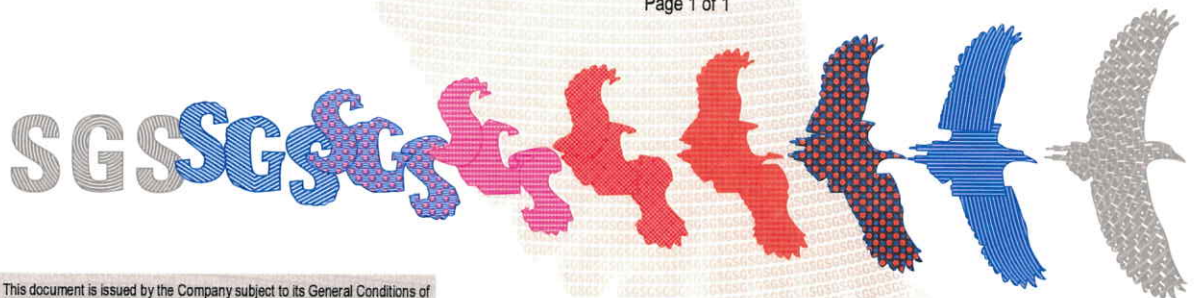
This certificate is valid from 17 November 2020 until 19 December 2022 and remains valid subject to satisfactory surveillance audits.

Re certification audit due a minimum of 60 days before the expiration date
Issue 4. Certified since 20 December 2016.

Authorized by

SGS-CSTC Standards Technical Service Co., Ltd.
A-16F, Century YuHui Mansion, No.73, Fucheng Road, Beijing, China
Phone +86 (0)10 6845-6699 - Fax +86 (0)10 6845-8121 www.sgs.com

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Avary Holding (Shenzhen) Co., Ltd.

Unified Social Credit Code 9144030070855050X9
Avary Park, Songluo Road, Yanchuan Community, Yanluo Sub-District,
Baoan District, Shenzhen City, Guangdong Province, P.R. China

ISO 50001:2018 RB/T 101-2013

Issue 4



Organization's energy performance indicators and boundaries

Audit type and date	Energy consumption per unit product or unit output value during audit cycle	Boundaries
Re-cert. Oct.21~23, 2019	<p>From Jul.2017 to Jun.2018 Comprehensive energy consumption for unit output of products: 28.84 Kgce/m² Comprehensive energy consumption for unit output value: 21.5 Kgce/10K ¥RMB</p> <p>From Jul.2018 to Sep.2019 Comprehensive energy consumption for unit output of products: 28.64 Kgce/m² Comprehensive energy consumption for unit output value: 23.6 Kgce/10K ¥RMB</p>	<p>From Jul.2017 to Jun.2018 Total output: 993300 square meter</p> <p>From Jul.2018 to Sep.2019 Total output: 1419400 square meter</p> <p>Boundaries: Address: Avary Park, Songluo Road, Yanchuan Community, Yanluo Sub-District, Baoan District, Shenzhen City, Guangdong Province, P.R. China Main energy use process including: The production process of printing circle boards including cutting, drilling, copper plating, D/F lamination & Exposure, Developing/etching/stripping, AOI, stack, lamination/backing, surface treatment, Silkscreen/silver ink/solder mask, routing/punching, e-test, accessory stack, OSP, SMT. The main auxiliary production systems include air conditioning system, lighting system, air compressor system, wastewater treatment system, thermal oil boiler system, dormitory management system. The ancillary production system include the dormitory logistics management process.</p>
SUR.+ESG. Sep.14-16, 2020	<p>From Oct.2019 to Jul. 2020 Comprehensive energy consumption for unit output value: 27.4 Kgce/10K ¥RMB Comprehensive energy consumption for unit output of products: 30.55 Kgce/m²</p>	<p>From Oct.2019 to Jul.2020 Total output: 829130 square meter</p> <p>Boundaries: same as above</p>
2 nd Sur		

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Certificate CN17/10736

The management system of

Hong Qi Sheng Precision Electronics (Qinhuangdao) Co., Ltd.

Unified Social Credit Code 91130300798413970U

Business Registration Address: No 18, Tengfei Road, Economic & Technological
Development Zone, Qinhuangdao City

Business Operation Address: No 18, Tengfei Road, Economic & Technological
Development Zone, Qinhuangdao City, Hebei Province, P.R. China

has been assessed and certified as meeting the requirements of

GB/T 23331-2020/ ISO 50001:2018 RB/T 101-2013

For the following activities

**Energy management and application of energy saving technology of
processes of energy procurement, acceptance, energy storage and use
involved in Printed circuit board manufacturing and assembly.**

For the detail information regarding boundaries and comprehensive energy consumption, please see the
appendix with the same number of this certificate and it is the component of this certificate.

This certificate is valid from 31 December 2020 until 30 December 2023
and remains valid subject to satisfactory surveillance audits.

Re certification audit due a minimum of 60 days before the expiration date
Issue 2. Certified since 31 December 2014.

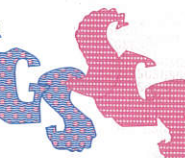
Authorized by

SGS CSTC Standards Technical Services Co., Ltd.
16F Century YuHui Mansion, No. 73 Fucheng Road, Beijing, P.R. CHINA 100142
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The certification information can be verified on the web site of Certification and Accreditation Administration of
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extent of the law.



The Appendix of Certificate CN17/10736

Hong Qi Sheng Precision Electronics (Qinhuangdao) Co., Ltd.

Unified Social Credit Code 91130300798413970U
No 18, Tengfei Road, Economic & Technological Development Zone,
Qinhuangdao City, Hebei Province, P.R. China

**GB/T 23331-2020/
ISO 50001:2018
RB/T 101-2013**

Issue 2



Organization's energy performance indicators and boundaries

Audit type and date	Energy consumption per unit product or unit output value during audit cycle	Boundaries
Re-certification Audit Nov.16-18, 2020	2018.11-2019.10 0.062 tce/10000RMB 0.0382 tce/m ² 0.022 tce/m ² (corrected) 2019.11-2020.10 0.059 tce/10000RMB 0.0404 tce/m ² (0.0216 tce/m ² corrected)	No 18, Tengfei Road, Economic & Technological Development Zone, Qinhuangdao City, Hebei Province, P.R. China, including A01、 A02、 A03、 A06、 A07、 A11、 A12、 A13、 A15、 A16、 R01、 W01、 A08、 A09 buildings. Main energy consuming processes include production processes of MSAP、 FPC, and the assembly process of FPC, and other auxiliary production processes such as heating and ventilation, refrigeration, compressed air, etc. Main production quantity: 2018.11-2019.10 (1,338,396 m ²) 2019.11-2020.10: 1,481,184 m ² (2,766,704 m ² corrected)
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Certificate CN17/10706

The management system of

Qi Ding Technology Qinhuangdao Co., Ltd.

Unified Social Credit Code 91130301MA07U7RY6W

Business Registration Address: No 18-2, Tengfei Road, Economic and
Technological Development Zone, Qinhuangdao City, P.R. China

Business Operation Address: No 18-2, Tengfei Road, Economic and Technological
Development Zone, Qinhuangdao City, Hebei Province, P.R. China

has been assessed and certified as meeting the requirements of

GB/T 23331-2020/ ISO 50001:2018 RB/T 101-2013

For the following activities

**Semiconductor components involved in the production, operation and
service process of energy procurement, storage management,
and the application of energy-saving technologies.**

For the detail information regarding boundaries and comprehensive energy consumption, please see the
appendix with the same number of this certificate and it is the component of this certificate.

This certificate is valid from 13 December 2020 until 12 December 2023
and remains valid subject to satisfactory surveillance audits.

Re certification audit due a minimum of 60 days before the expiration date
Issue 2. Certified since 13 December 2017.

Authorized by

SGS-CSTC Standards Technical Service Co., Ltd.
A-16F, Century YuHui Mansion, No.73, Fucheng Road, Beijing, China
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document is unlawful and offenders may be prosecuted to the fullest extent of the law.

Qi Ding Technology Qinhuangdao Co., Ltd.

Unified Social Credit Code 91130301MA07U7RY6W
No 18-2, Tengfei Road, Economic and Technological Development Zone,
Qinhuangdao City, Hebei Province, P.R. China

**GB/T 23331-2020/
ISO 50001:2018
RB/T 101-2013**

Issue 2



Organization's energy performance indicators and boundaries

Audit type and date	Energy consumption per unit product or unit output value during audit cycle	Boundaries
Renewal audit Nov.19-20, 2020	<p>2018.11-2019.10 0.193 tce/10000RMB 0.0695 tce/m²</p> <p>2019.11-2020.10 0.127 tce/10000RMB 0.0552 tce/m²</p>	<p>The factory located in No 18-2, Tengfei Road, Economic and Technological Development Zone, Qinhuangdao City, Hebei Province, P.R. China, the main energy-consuming process includes cutting, lamination, copper plating, line, solder mask, gold plating/ immersion, router, final inspection, and other production processes as well as heating ventilation air condition, refrigeration, compressed air and other auxiliary production processes.</p> <p>Main production quantity: 2018.11-2019.10 (85,178m²) 2019.11-2020.10 (127,860 m²)</p>
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CERTIFICATE OF MANAGEMENT SYSTEM CERTIFICATION

Certificate No: 01120EN30023R2L

OID No: 1.2.156.1.2.01120EN30023R2L

This is to certify that the Energy Management System of

HONG HENG SHENG ELECTRONICAL TECHNOLOGY (HUAI'AN) CO., LTD.

(Certificate of Social Credit Code: 91320891795375374T)

(NO.168, Fushikang Road, Huai'an Economic And Technological Development Zone, Jiangsu Province,
China (Inside Of Integrated Free Trade Zone), 223005)

has complied with the requirements of

ISO 50001:2018

Energy management systems-Requirements

RB/T101-2013

This certificate is valid for the following scope:

**THE ENERGY MANAGEMENT ACTIVITIES RELATED TO THE MANUFACTURING
PROCESS OF MULTI-STOREY AND HIGH-DENSITY CIRCUIT BOARD PROVIDED
BY HONGHENGSHENG ELECTRONICAL TECHNOLOGY (HUAI'AN) CO., LTD.
WHICH IS LOCATED AT NO. 168, FUSHIKANG ROAD, HUAI'AN ECONOMIC
AND TECHNOLOGICAL DEVELOPMENT ZONE, JIANGSU PROVINCE
(INSIDE OF INTEGRATED FREE TRADE ZONE)**

THE VALIDITY OF THIS CERTIFICATE DEPENDS ON THE CONSEQUENCE OF
THE ANNUALLY SURVEILLANCE EXECUTED BY THE CERTIFICATION BODY
PLEASE ACCESS www.cc.cesi.cn OR www.cnca.gov.cn FOR CHECKING VALIDITY OF THE CERTIFICATE

Note: The scope of product services without the related administrative permits and qualifications is
not included in the scope of certification registration.

General Manager

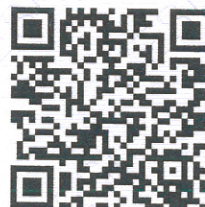
Issue Date:2020-12-21

Valid Until:2023-12-20

CESI Certification Co., Ltd.



中国认可
管理体系
MANAGEMENT SYSTEM
CNAS C011-M



Add: No.1 Andingmen Dongdajie Dongchengqu, Beijing, China Tel: 400-071-9000

[Http://www.cc.cesi.cn](http://www.cc.cesi.cn)



CERTIFICATE OF MANAGEMENT SYSTEM CERTIFICATION

Certificate No: 01120EN30017R1L
OID No: 1.2.156.1.2.01120EN30017R1L

**This is to certify that the Energy Management System of
QINGDING PRECISION ELECTRONICS (HUAI'AN) CO., LTD.**

(Certificate of Social Credit Code : 91320891094404566T)
(No.8, Pengding Road, Huai'an Economic And Technological Development Zone
Jiangsu Province, China, 223005)

**has complied with the requirements of
ISO 50001:2018**

**Energy management systems-Requirements
RB/T101-2013**

This certificate is valid for the following scope:

**THE ENERGY MANAGEMENT ACTIVITIES RELATED TO THE MANUFACTURING
PROCESS OF MULTILAYER FLEXIBLE CIRCUIT BOARDS (FPC) PROVIDED BY
QINGDING PRECISION ELECTRONICS (HUAI'AN) CO., LTD. WHICH IS
LOCATED AT NO.8, PENGDING ROAD, HUAI'AN ECONOMIC AND
TECHNOLOGICAL DEVELOPMENT ZONE, JIANGSU PROVINCE**

THE VALIDITY OF THIS CERTIFICATE DEPENDS ON THE CONSEQUENCE OF
THE ANNUALLY SURVEILLANCE EXECUTED BY THE CERTIFICATION BODY
PLEASE ACCESS www.cc.cesi.cn OR www.cnca.gov.cn FOR CHECKING VALIDITY OF THE CERTIFICATE
Note: The scope of product services without the related administrative permits and qualifications is
not included in the scope of certification registration.

Issue Date:2020-09-21

Valid Until:2023-09-20

General Manager

CESI Certification Co., Ltd.



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MANAGEMENT SYSTEM
CNAS C011-M



Add: No.1Andingmen Dongdajie Dongchengqu,Beijing,China

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