

Delta's Energy Management System

台達能源管理系統

ISO 50001 Energy Management System Certificate

ISO 50001 能源管理系統證書



Energy Management Committee

能源管理委員會

In 2011, Delta established a cross functional energy management committee, and an Energy-Saving Technology Team was further organized within the committee. Over the years, the team regularly audited the energy consumption result to find more opportunities and it has implemented various energy conservation and improvement measures for public facilities. These audits serve as checkpoints, allowing Delta to evaluate its progress in reducing energy consumption. By coordinating firsthand experience with energy conservation from internal and external consultants, the team is able to implement these practices at global operation sites.

台達自 2011 年成立跨地區能源管理委員會，委員會中成立技術節能工作小組，歷年來透過定期檢視能耗狀況，從中找出節能機會，針對公用設施已進行多項節能改善措施，並經由技術節能工作小組整合內外部顧問節能實務經驗，平行推展到全球營運據點。

Continuing to Expand Energy Conservation Projects

持續拓展節能專案

We started implementing the internal carbon pricing mechanism in 2021 and encouraged global operation sites to apply for investment as well as implement energy- saving and carbon reduction projects (e.g., replacing the water ring vacuum pumps at the Wujiang Plant, introducing magnetic suspension chillers at the Dongguan Plant, replacing old chillers at the Pingjhen Plant, and introducing the high- efficiency chillers at the Thailand Plants. These projects were expanded across production plants to strengthen energy and resource management and applied to innovative low-carbon developments as well as innovative energy conservation and carbon reduction technologies.

To raise awareness of energy consumption reduction, Delta provides training courses on energy efficiency management to our employees periodically. In 2024, Delta offered the "Energy Management System Awareness Training" course to provide internal employees with an overview of the energy use at



plants and the implementation of the ISO 50001 system. We also organized the "Online Training for Energy Conservation Management Personnel" and "Delta Climate Salon - Innovative Energy Conservation Technologies and Case Studies" courses, sharing innovative energy conservation methods and real case studies of buildings, factories, and data centers. Part of Delta's production plants are certified by third parties according to the ISO 50001 Energy Management System standard.

2021 年開始實施內部碳費機制，鼓勵全球營運據點申請投資及推動節能減碳方案 (例如吳江廠區汰換水環式真空泵、東莞廠區導入磁懸浮冰水主機、平鎮廠區汰換老舊冰水主機設備、泰國廠區更換高效能冰水主機設備)，加強能資源管理，並用於低碳創新發展，投入到創新的節能與減碳技術。

為提高員工的節能意識，台達定期提供能源效率管理培訓課程。台達開設「能源管理體系意識培訓」課程，向內部同仁簡介案例廠區的能源使用狀況及 ISO 50001 體系推行說明，亦辦理「節能管理人員線上培訓」、「台達氣候沙龍—產業創新節能技術與案例分享」課程，對外分享建築、工廠及資料中心的創新節能手法及實際案例。台達部分生產廠區通過 ISO 50001 能源管理系統第三方驗證。

Certificate of Registration

能源管理体系 – ISO 50001:2018

兹证明:

中达电子(江苏)有限公司五厂、七厂
91320509718615098C
中国
江苏省
苏州市
吴江经济技术开发区
江兴东路1688号WJ5和WJ7厂房
邮编: 215200

Delta Electronics (Jiangsu) Ltd.
Plant 5, Plant 7
Buildings WJ5 and WJ7, No. 1688
Jiangxing East Road
Wujiang Economic and Technological
Development Zone
Suzhou
Jiangsu
215200
China

持有证书:

ENMS 767226

并运行符合ISO 50001:2018要求的能源管理体系, 认证范围如下:

请见认证范围页

BSI代表:



Michael Lam, Senior Vice President, APAC Assurance

首次发证日期: 2022-05-09

最新发证日期: 2025-04-25

生效日期: 2025-05-09

有效期至: 2028-05-08

Page: 1 of 2



...making excellence a habit.™

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关于证书范围及 ISO 50001:2018 要求的适用性的进一步说明请咨询BSI。

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信息查询及联系方式: BSI, Kitemark Court, Davy Avenue, Knowlhill, Milton Keynes MK5 8PP. 电话: +44 345 080 9000

BSI保证英国有限公司, 注册地英国, 注册号码7805321, 地址: 389 Chiswick High Road, London W4 4AL, UK

BSI集团公司成员。

持有证书:

ENMS 767226

Registered Scope:

直流风扇、汽车马达的设计制造、散热模组的制造过程所涉及的能源管理活动。 单位产品产量综合能耗: 0.0312吨标准煤/千个 (风扇)单位产品综合能耗: 6.1千克标准煤/千个 (散热模组)单位产品综合能耗: 11.4千克标准煤/千个 (汽车马达)单位产品综合能耗: 12.56吨标准煤/千个 主要生产工艺: 1、(五厂) 风扇: 插件---定子组合---绕线---焊锡---耐压测试---插件---焊件---焊线---目检---组合矽钢片与框---点胶---入磁---充磁---压合磁带空架---扇叶平衡---零件组装---组合框架---低压/异音测试---全功能测试---贴标签---检查包装 2、(五厂) 散热模组: 放盘---点锡---网印铜管---盖盖板---锁C型夹---过炉焊接---外观检查---平面度检测---清洁松香---取材料---卸C型夹---焊线---压扣环---锁螺丝---组合模组&风扇---清洁&外观检查---热阻测试---贴标签---贴附件---叶高抖动异音功能测试---震动测试---刷散热膏---平面度测试---检查包装---打包 3、(七厂) 汽车马达: 插件---组装---焊接---烘烤---测试---包装; 统计期间: 2024.01.01-2024.12.31.

The design and manufacture of DC (direct current) Fan and Automobile motor, the manufacture of cooling module and related activities on energy consumption. The comprehensive energy consumption per unit output is 0.0312tce/ kpcs. The comprehensive energy consumption per unit output of fan is 6.1kgce/ kpcs. The comprehensive energy consumption per unit output of cooling module is 11.4kgce/ kpcs. The comprehensive energy consumption per unit output of automobile motor is 12.56tce/kpcs. Main production process: 1. (No.5 Plant) Fan: Pin Insert---Stator Assembly---Winding---Soldering---DCR&Hi-Pot Test---Inserting---PIN Solder---Cable Solder---Visual Inspection---Stator and Frame Assembly---Glue on case---Magnet Insert---Magnetize---Magnet & Impeller Assembly---Rotor Balancing---Assembly---Impeller & Frame Assembly---Low Voltage and Noise Test---Function Test---Labeling---Inspecting & Packing; 2. (No.5 Plant) cooling module: For plate---Fin---Screen printing copper tube---Cover plate--- Lock type C clip---furnace welding---appearance inspection---flatness gaging---Clean rosin---Take the material---Remove C-clip---Cable Solder---Pressure retaining ring---screwdriving--- Modular modules & fans---Clean & appearance inspection--- Thermal resistance test---Labeling---Stick the attachment--- Dither tone function test---vibration test---brush radiating cream---flatness test---check the package---packing; 3. (No.7 Plant) Automobile motor: Plugged in---assemble---weld---roast---test--- packing; Statistical period from 1st Jan 2024 to 31st Dec 2024

首次发证日期: 2022-05-09

最新发证日期: 2025-04-25

生效日期: 2025-05-09

有效期至: 2028-05-08

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BSI集团公司成员。



管理体系认证证书

证书编号: 01125EN30058R1L
OID 编号: 1.2.156.1.2.01125EN30058R1L

兹证明

台达电子（东莞）有限公司

(统一社会信用代码: 91441900618361967X)

(东莞市石碣镇鹤田厦村, 523300)

能源管理体系符合标准:

GB/T 23331-2020/ISO 50001:2018
RB/T101-2013, RB/T 119-2015

本证书覆盖下述范围:

电源供应器类产品、网络通讯产品、散热风扇、散热模组和
自动化设备的设计和制造。

场所 1: 广东省东莞市石碣镇蟠桃路 33 号: 电源供应类产品、
网络通讯产品、自动化机器设备的设计和制造。

场所 2: 广东省东莞市鹤田厦村振园路 6 号: 散热风扇、散热模组的
设计和制造。

本证书有效性依据发证机构的定期监督获得保持, 证书有效性信息请登录 www.cc.cesi.cn 进行查询

本证书信息可在国家认证认可监督管理委员会官方网站 www.cnca.gov.cn 上查询

(注: 认证注册范围不包括未获得有效的国家规定的相关行政许可、资质许可的产品服务范围)

签发人:

发证机构: 北京赛西认证有限责任公司



发证日期: 2025 年 7 月 31 日

有效期至: 2028 年 8 月 9 日



地 址: 北京市东城区安定门东大街一号院 1 号楼 2 层
客服电话: 4000719000 网址: www.cc.cesi.cn



CERTIFICATE OF MANAGEMENT SYSTEM CERTIFICATION

Certificate No: 01125EN30058R1L
OID No: 1.2.156.1.2.01125EN30058R1L

This is to certify that the Energy Management System of

DELTA ELECTRONICS (DONGGUAN) CO., LTD.

(Unified Social Credit Code: 91441900618361967X)
(Hetianxia Village, Shijie Town, Dongguan City, 523300)

has complied with the requirements of

GB/T 23331-2020/ISO 50001:2018

RB/T101-2013, RB/T 119-2015

This certificate is valid for the following scope:

**DESIGN AND MANUFACTURE OF POWER SUPPLY PRODUCTS, NETWORK
COMMUNICATION PRODUCTS, COOLING FANS, COOLING MODULES, AND
AUTOMATION EQUIPMENT**

**THE ORGANIZATION IS MULTIPLE SITES, WHICH THE CERTIFICATION
SCOPES AND SITES COVERED ARE INDICATED AS FOLLOWING:**

**PLACE 1: NO.33 PANTAO ROAD, SHIJIE TOWN, DONGGUAN CITY, GUANGDONG
PROVINCE: DESIGN AND MANUFACTURE OF POWER SUPPLY PRODUCTS, NETWORK
COMMUNICATION PRODUCTS, AND AUTOMATION EQUIPMENT**

**PLACE 2: NO.6 ZHENYUAN ROAD, SHIJIE TOWN, DONGGUAN CITY, GUANGDONG
ROVINCE: DESIGN AND MANUFACTURE OF COOLING FANS AND COOLING MODULES**

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.

SIGNATURE:

CESI Certification Co., Ltd.

Issue Date: 2025-07-31

Valid Until: 2028-08-09



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



Add: 2nd Floor, Building 1, No.1 Andingmen Dongdajie, Dongcheng District, Beijing, China

Tel: 4000719000

<http://www.cc.cesi.cn>



证书附件

证书编号: 01125EN30058R1L

OID 编号: 1.2.156.1.2.01125EN30058R1L

发证日期: 2025 年 7 月 31 日

有效期至: 2028 年 8 月 9 日

获证组织名称: 台达电子(东莞)有限公司

获证组织地址: 东莞市石碣镇鹤田厦村, 523300

证书编号: 01125EN30058R1L

认证依据标准: GB/T 23331-2020/ISO 50001:2018
RB/T101-2013, RB/T 119-2015

审核类型及时间	审核周期单位产品/产值能耗	能耗核算边界
再认证 2025 年 7 月 23 日- 7 月 25 日	2024 年 1 月 1 日- 2024 年 12 月 31 日 综合能耗: 11022 吨标准煤 单位产品综合能耗: 739.02 千克标准煤/万台 单位产值综合能耗: 10.67 千克标准煤/万元 电源供应器类产品 综合能耗: 5042 吨标准煤 单位产品综合能耗: 850.66 千克标准煤/万台 网络通讯产品 综合能耗: 844 吨标准煤 单位产品综合能耗: 4611.8 千克标准煤/万台 自动化设备 综合能耗: 187 吨标准煤 单位产品综合能耗: 46.55 千克标准煤/台 散热风扇/模组产品 综合能耗: 4949 吨标准煤 单位产品综合能耗: 562.11 千克标准煤/万台	边界 1: 位于广东省东莞市石碣镇蟠桃路 33 号范围内的电源供应器类产品、网络通讯产品和自动化设备的设计和制造相关, 包括: 贴片、插件、回流焊、波峰焊、部件组装、测试、老化、检验、包装的主要生产用能系统; 供配电系统、中央空调及通风系统、空压系统、抽排风系统等辅助用能系统以及办公、食堂和员工宿舍等附属用能系统; 主要能源种类为电。 边界 2: 位于广东省东莞市石碣镇鹤田厦村振园路 6 号范围内的散热风扇散热模组的设计和制造相关, 包括: 绕线、注塑、冲压、贴片、插件、回流焊、波峰焊、部件组装、测试、老化、检验、包装的主要生产用能系统; 供配电系统、中央空调及通风系统、空压系统、抽排风系统等辅助用能系统以及办公、食堂和员工宿舍等附属用能系统; 主要能源种类为电。



证书附件

证书编号: 01125EN30058R1L

OID 编号: 1.2.156.1.2.01125EN30058R1L

发证日期: 2025 年 7 月 31 日

有效期至: 2028 年 8 月 9 日

获证组织名称: 台达电子(东莞)有限公司

获证组织地址: 东莞市石碣镇鹤田厦村, 523300

证书编号: 01125EN30058R1L

认证依据标准: GB/T 23331-2020/ISO 50001:2018

RB/T101-2013, RB/T 119-2015

审核类型及时间	审核周期单位产品/产值能耗	能耗核算边界
再认证 2025 年 7 月 23 日- 7 月 25 日	2025 年 1 月 1 日- 2025 年 6 月 30 日 综合能耗: 5612 吨标准煤 单位产品综合能耗: 713.85 千克标准煤/万台 单位产值综合能耗: 10.13 千克标准煤/万元 电源供应器类产品 综合能耗: 2294 吨标准煤 单位产品综合能耗: 833.86 千克标准煤/万台 网络通讯产品 综合能耗: 582 吨标准煤 单位产品综合能耗: 4411.91 千克标准煤/万台 自动化设备 综合能耗: 92 吨标准煤 单位产品综合能耗: 45.83 千克标准煤/台 散热风扇/模组产品 综合能耗: 2644 吨标准煤 单位产品综合能耗: 531.11 千克标准煤/万台	
第 次监督		
第 次监督		



PSB Singapore

◆ CERTIFICAT

◆ CERTIFICADO

◆ СЕРТИФИКАТ

◆ 認證證書

◆ CERTIFICATE

◆ ZERTIFIKAT

CERTIFICATE

Certificate Registration No. **EnMS-2023-0055-1**

**The Certification Body
of TÜV SÜD PSB Pte Ltd**

certifies that the organization

DELTA ELECTRONICS (THAILAND) PUBLIC COMPANY LIMITED

**909 Village No. 4, Phraek Sa Sub-District, Mueang Samut Prakan District
Samut Prakan Province 10280, Thailand**

has established and applies an Energy Management System for the scope of

**Marketing, Design, Development and Manufacturing of Power
Conversion Products (Switching Power Supply, Adaptor & Charger,
AC/DC, DC/DC, DC/AC Converters, Chargers, Inverters,
Telecommunication Power Supply / Server Power Supply)
and Electronic Control Units.**

(including the sites see enclosure)

Proof has been furnished that the requirements according to

ISO 50001 : 2018

are fulfilled.

The certificate is valid from **2025-07-09 to 2028-06-12**

Date of Print : **2025-07-10**



Manineth Pulido
Head of Certification Body
Management Systems
Business Assurance Division





PSB Singapore

ENCLOSURE OF CERTIFICATE

Certificate Registration No. **EnMS-2023-0055-1**

Issue Number : 1

Date of Print : 2025-07-10

Certificate Holder : **DELTA ELECTRONICS (THAILAND) PUBLIC COMPANY LIMITED**
 909 Village No. 4, Phraek Sa Sub-District, Mueang Samut Prakan
 District Samut Prakan Province 10280, Thailand

The scope of certification also covers the following site and activities:

At the Sites	Scope of Certification
DELTA ELECTRONICS (THAILAND) PUBLIC COMPANY LIMITED 714 Village No. 4, Phraek Sa Sub-District, Mueang Samut Prakan District, Samutprakarn Province 10280, Thailand	Manufacturing of Power Conversion Products (Switching Power Supply, Adaptor & Charger, AC/DC, DC/DC, DC/AC Converter, Charger, Inverter) and Electronic Control Units. Certificate No. EnMS-2023-0055-2
DELTA ELECTRONICS (THAILAND) PUBLIC COMPANY LIMITED 111 Village No. 9, Bang Wua Sub-District, Bang Pakong District, Chachoengsao Province 24180, Thailand	Manufacturing of EMI Filter, Solenoid, PWB Assembly, Heatsink, Ventilation Fan and Cooling Fan Products. Certificate No. EnMS-2023-0055-3
DELTA ELECTRONICS (THAILAND) PUBLIC COMPANY LIMITED 699, 701 Village No. 4, Phraek Sa Sub-District, Mueang Samut Prakan District, Samut Prakan Province 10280, Thailand	Manufacturing of Routers, Devices of Wireless Network Products, Switching Products for Network Communication and Magnetic Products (Transformer, Line Filter and Inductor). Certificate No. EnMS-2023-0055-4
DELTA ELECTRONICS (THAILAND) PUBLIC COMPANY LIMITED 111/6 Village No. 9, Bang Wua Sub-District, Bang Pakong District, Chachoengsao Province 24180, Thailand	Manufacturing of Power Conversion Products (Switching Power Supply, Adaptor & Charger, AC/DC, DC/DC, DC/AC Converters, Chargers, Inverters, Telecommunication / Server Power Supply), Power choke, and Manufacturing of Injection-Molded Parts for PWB Assembly. Certificate No. EnMS-2023-0055-5



Manineth Pulido
 Head of Certification Body
 Management Systems
 Business Assurance Division





PSB Singapore

ENCLOSURE OF CERTIFICATE

Certificate Registration No. **EnMS-2023-0055-1**

Issue Number : 1

Date of Print : 2025-07-10

Certificate Holder : **DELTA ELECTRONICS (THAILAND) PUBLIC COMPANY LIMITED**
 909 Village No. 4, Phraek Sa Sub-District, Mueang Samut Prakan
 District Samut Prakan Province 10280, Thailand

The scope of certification also covers the following site and activities:

At the Sites	Scope of Certification
DELTA ELECTRONICS (THAILAND) PUBLIC COMPANY LIMITED 711 Village No. 4, Phraek Sa Sub-District, Mueang Samut Prakan District, Samut Prakan Province 10280, Thailand	Manufacturing of Power Conversion Product (AC/DC, DC/DC, DC/AC Converters, Chargers, Inverters) and Electronic Control Units. Certificate No. EnMS-2023-0055-6
DELTA ELECTRONICS (THAILAND) PUBLIC COMPANY LIMITED 709 Village No. 4, Phraek Sa Sub-District, Mueang Samut Prakan District, Samut Prakan Province 10280, Thailand	Manufacturing of Magnetic Products (Transformers, Line Filters, Inductors). Certificate No. EnMS-2023-0055-7
DELTA ELECTRONICS (THAILAND) PUBLIC COMPANY LIMITED 919 Village No. 3, Phraek Sa Mai Sub-District, Mueang Samut Prakan District, Samut Prakan Province 10280, Thailand	Design and Development of Power Conversion Products Certificate No. EnMS-2023-0055-8
DELTA ELECTRONICS (THAILAND) PUBLIC COMPANY LIMITED 918 Village No. 3, Phraek Sa Mai Sub-District, Mueang Samut Prakan District, Samut Prakan Province 10280, Thailand	Manufacturing of Power Conversion Products (Switching Power Supply, Adaptor & Charger, AC/DC, DC/DC, DC/AC Converters, Chargers, Inverters, Telecommunication Power Supply / Server Power Supply) and Magnetic Products (Transformers, Line Filters, Inductors). Certificate No. EnMS-2023-0055-9



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◆ CERTIFICAT

◆ CERTIFICADO

◆ СЕРТИФИКАТ

◆ 認證證書

◆ CERTIFICATE

◆ ZERTIFIKAT

CERTIFICATE

Certificate Registration No. **EnMS-2023-0055-3**

**The Certification Body
of TÜV SÜD PSB Pte Ltd**

certifies that the organization

DELTA ELECTRONICS (THAILAND) PUBLIC COMPANY LIMITED

**111 Village No. 9, Bang Wua Sub-District, Bang Pakong
District, Chachoengsao Province 24180, Thailand**

has established and applies an Energy Management System for the scope of

**Manufacturing of EMI Filter, Solenoid, PWB Assembly, Heatsink,
Ventilation Fan and Cooling Fan Products.**

Proof has been furnished that the requirements according to

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Manineth Pulido
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Management Systems
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Page 1 of 1

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◆ CERTIFICAT

◆ CERTIFICADO

◆ СЕРТИФИКАТ

◆ 認證證書

◆ CERTIFICATE

◆ ZERTIFIKAT

CERTIFICATE

Certificate Registration No. **EnMS-2023-0055-4**

**The Certification Body
of TÜV SÜD PSB Pte Ltd**

certifies that the organization

DELTA ELECTRONICS (THAILAND) PUBLIC COMPANY LIMITED

**699, 701 Village No. 4, Phraek Sa Sub-District, Mueang Samut Prakan
District, Samut Prakan Province 10280, Thailand**

has established and applies an Energy Management System for the scope of

**Manufacturing of Routers, Devices of Wireless Network Products,
Switching Products for Network Communication and Magnetic
Products (Transformer, Line Filter and Inductor).**

Proof has been furnished that the requirements according to

ISO 50001 : 2018

are fulfilled.

The certificate is valid from **2025-07-09 to 2028-06-12**

Date of Print : **2025-07-10**



Manineth Pulido
Head of Certification Body
Management Systems
Business Assurance Division



Page 1 of 1

Please refer to www.tuvsud.com/en-sg for current certificate status in the "Directory of Management System Certified Companies".



PSB Singapore

◆ CERTIFICAT

◆ CERTIFICADO

◆ СЕРТИФИКАТ

◆ 認證證書

◆ CERTIFICATE

◆ ZERTIFIKAT

CERTIFICATE

Certificate Registration No. **EnMS-2023-0055-5**

**The Certification Body
of TÜV SÜD PSB Pte Ltd**

certifies that the organization

DELTA ELECTRONICS (THAILAND) PUBLIC COMPANY LIMITED

**111/6 Village No. 9, Bang Wua Sub-District, Bang Pakong
District, Chachoengsao Province 24180, Thailand**

has established and applies an Energy Management System for the scope of

**Manufacturing of Power Conversion Products (Switching Power
Supply, Adaptor & Charger, AC/DC, DC/DC, DC/AC Converters,
Chargers, Inverters, Telecommunication / Server Power Supply),
Power choke, and Manufacturing of Injection-Molded Parts for PWB
Assembly.**

Proof has been furnished that the requirements according to

ISO 50001 : 2018

are fulfilled.

The certificate is valid from **2025-07-09 to 2028-06-12**

Date of Print : **2025-07-10**



Manineth Pulido

Manineth Pulido
Head of Certification Body
Management Systems
Business Assurance Division



Page 1 of 1

Please refer to www.tuvsud.com/en-sg for current certificate status in the "Directory of Management System Certified Companies".



PSB Singapore

◆ CERTIFICAT

◆ CERTIFICADO

◆ СЕРТИФИКАТ

◆ 認證證書

◆ CERTIFICATE

◆ ZERTIFIKAT

CERTIFICATE

Certificate Registration No. **EnMS-2023-0055-6**

**The Certification Body
of TÜV SÜD PSB Pte Ltd**

certifies that the organization

DELTA ELECTRONICS (THAILAND) PUBLIC COMPANY LIMITED

**711 Village No. 4, Phraek Sa Sub-District, Mueang Samut Prakan
District, Samut Prakan Province 10280, Thailand**

has established and applies an Energy Management System for the scope of

**Manufacturing of Power Conversion Product (AC/DC, DC/DC, DC/AC
Converters, Chargers, Inverters) and Electronic Control Units.**

Proof has been furnished that the requirements according to

ISO 50001 : 2018

are fulfilled.

The certificate is valid from **2025-07-09 to 2028-06-12**

Date of Print : **2025-07-10**



Manineth Pulido

Manineth Pulido
Head of Certification Body
Management Systems
Business Assurance Division



Page 1 of 1

Please refer to www.tuvsud.com/en-sg for current certificate status in the "Directory of Management System Certified Companies".



PSB Singapore

◆ CERTIFICAT

◆ CERTIFICADO

◆ СЕРТИФИКАТ

◆ 認證證書

◆ CERTIFICATE

◆ ZERTIFIKAT

CERTIFICATE

Certificate Registration No. **EnMS-2023-0055-7**

**The Certification Body
of TÜV SÜD PSB Pte Ltd**

certifies that the organization

DELTA ELECTRONICS (THAILAND) PUBLIC COMPANY LIMITED

**709 Village No. 4, Phraek Sa Sub-District, Mueang Samut Prakan
District, Samut Prakan Province 10280, Thailand**

has established and applies an Energy Management System for the scope of

**Manufacturing of Magnetic Products (Transformers, Line Filters,
Inductors).**

Proof has been furnished that the requirements according to

ISO 50001 : 2018

are fulfilled.

The certificate is valid from **2025-07-09 to 2028-06-12**

Date of Print : **2025-07-10**



Manineth Pulido

Manineth Pulido
Head of Certification Body
Management Systems
Business Assurance Division



Page 1 of 1

Please refer to www.tuvsud.com/en-sg for current certificate status in the "Directory of Management System Certified Companies".



CERTIFICATE



This is to certify that

Cyntec Co., Ltd.

No. 2 R&D 2nd Road, Science-Based Industrial Park
30076 Hsin Chu
Taiwan

has implemented and maintains an **Energy Management System**.

Scope:

The design and manufacture of thin film platinum resistance temperature detectors, chip resistors, inductors, power modules, fuse protectors and shunts.

Through an audit, documented in a report, it was verified that the management system fulfills the requirements of the following standard:

ISO 50001 : 2018

Certificate registration no.	20000618 EMSt21
Valid from	2024-03-04
Valid until	2027-03-03
Date of certification	2024-02-19



DQS GmbH

Christian Gerling
Managing Director

DQS IS A MEMBER OF



Accredited Body: DQS GmbH, August-Schanz-Straße 21, 60433 Frankfurt am Main, Germany
Administrative Office: DQS Holding GmbH, Konrad-Adenauer-Allee 8-10, 61118 Bad Vilbel, Germany
The validity of this certificate can only be verified by the QR-code.



CERTIFICATE



This is to certify that

Cyntec Co., Ltd.

1~4F, No. 30, Sec.2, Huandong Rd., Shanhua Dist.
741014 Tainan City
Taiwan, R.O.C.

has implemented and maintains an **Energy Management System**.

Scope:

The design and manufacture of molding choke and power modules.

Through an audit, documented in a report, it was verified that the management system fulfills the requirements of the following standard:

ISO 50001 : 2018

Certificate registration no.	50600476 EMSt21
Date of revision	2023-07-13
Valid from	2023-05-12
Valid until	2026-05-11
Date of certification	2023-05-12



DQS GmbH

Christian Gerling
Managing Director

DQS IS A MEMBER OF



Accredited Body: DQS GmbH, August-Schanz-Straße 21, 60433 Frankfurt am Main, Germany
Administrative Office: DQS Holding GmbH, Konrad-Adenauer-Allee 8-10, 61118 Bad Vilbel, Germany
The validity of this certificate can only be verified by the QR-code.



证书



兹证明，

吴江华丰电子科技有限公司

中国江苏省苏州市吴江经济技术开发区吉市东路 168 号
邮政编码: 215200

统一社会信用代码: 913205097933133056

以及附录中所列的各分布地公司

已实施并维持一个**能源管理体系**。

在如下范围内:

电感器和电源模组之设计和制造。
射频模组和印刷线路板组件的制造。

经过审核，其结果已记录于审核报告中，
证实该管理体系满足以下标准的要求：

ISO 50001 : 2018

证书注册号 20000617 EMSt21
证书变更日期 2024-01-25
有效期自 2024-02-07
有效期至 2027-02-06
批准日期 2024-01-25



DQS GmbH

Christian Gerling
总经理

DQS IS A MEMBER OF



Accredited Body: DQS GmbH, August-Schanz-Straße 21, 60433 Frankfurt am Main, Germany
Administrative Office: DQS Holding GmbH, Konrad-Adenauer-Allee 8-10, 61118 Bad Vilbel, Germany
Responsible Office: 德世爱普认证（上海）有限公司, 中国上海市普陀区大渡河路168弄31号北岸长风E栋9层06, 07室, 邮政编码: 200062

本证书可在我司官网 www.dqsglobal.com 上查询，亦可在国家认证认可监督管理委员会官方网站 www.cnca.gov.cn 上查询

The validity of this certificate can only be verified by the QR-code.



证书(注册号: 20000617 EMSt21) 附件

吴江华丰电子科技有限公司

中国江苏省苏州市吴江经济开发区吉市东路 168 号
邮政编码: 215200

场地

适用范围

20000616

吴江华丰电子科技有限公司
中国江苏省苏州市吴江经济技术开发区
绣湖西路 688 号
邮政编码: 215200

白金薄膜温度感测器、芯片式电阻、排列式电阻
和电感器的设计与制造。

统一社会信用代码: 913205097933133056

审核类型及时间	审核周期单位产品能耗	能耗核算边界
第二次监督审核 2023年1月30日至 2023 年 2 月 2 日	2022 年 1-12 月， 单位产品综合能耗： P1—0.98 吨标煤/百万件 P2—0.023 吨标煤/百万件 单位产值综合能耗： P1—2.65 吨标煤/百万元 P2—4.75 吨标煤/百万元	位于江苏省苏州市吴江经济 技术开发区吉市东路 168 号(P1)内 的电感器和电源模组之设计和 制造，射频模组和印刷线路板 组件的制造；及江苏省苏州市 吴江经济技术开发区绣湖西路 688 号(P2)内的电阻、白金薄膜 温度感测器和电感器的设计与 制造。 所涉及生产系统、辅助生产系 统和附属生产系统。生产过程 包括造粉/模具/热压/成型/汽 车电感/T-core/passive/ LTCC//贴片/回流焊制造等。 主要能源种类为电力、天然气
初次认证/再认证 2023 年12月18 日至 2023 年 12 月26 日	2023 年 1-11 月， 单位产品综合能耗： P1—1.22 吨标煤/百万件 P2—0.019 吨标煤/百万件 单位产值综合能耗： P1—2.76 吨标煤/百万元 P2—3.65 吨标煤/百万元	位于江苏省苏州市吴江经济 技术开发区吉市东路 168 号(P1)内 的电感器和电源模组之设计和 制造，射频模组和印刷线路板 组件的制造；及江苏省苏州市 吴江经济技术开发区绣湖西路 688 号(P2)内的白金薄膜温度感 测器、芯片式电阻、排列式电 阻和电感器的设计与制造。 所涉及生产系统、辅助生产系 统和附属生产系统。生产过程 包括造粉/模具/热压/成型/汽 车电感/T-core/passive/ LTCC/ 贴片/回流焊制造等。 主要能源种类为电力、天然气



CERTIFICATE



This is to certify that

Cyntec Electronics (Suzhou) Co., Ltd.

No. 168, Jishi East Road, Wujiang Economic Development Zone, Suzhou City
JiangSu Province 215200
China

Unified Social Credit Code: 913205097933133056

with the organizational units/sites as listed in the annex

has implemented and maintains an **Energy Management System**.

Scope:

The design and manufacture of inductors and Power Modules.

The manufacture of radio frequency modules and print circuit board assemblies.

Please see the certificate appendix with the same certificate registration number for the comprehensive energy consumption per unit output and energy consumption accounting boundary of the certified organization, which is an integral part of this certificate.

Through an audit, documented in a report, it was verified that the management system fulfills the requirements of the following standard:

ISO 50001 : 2018

Certificate registration no. 20000617 EMSt21

Date of revision 2024-01-25

Valid from 2024-02-07

Valid until 2027-02-06

Date of certification 2024-01-25



DQS GmbH

Christian Gerling
Managing Director

DQS IS A MEMBER OF



Accredited Body: DQS GmbH, August-Schanz-Straße 21, 60433 Frankfurt am Main, Germany
Administrative Office: DQS Holding GmbH, Konrad-Adenauer-Allee 8-10, 61118 Bad Vilbel, Germany
Responsible Office: DQS AP Ltd., 906-907, Waterfront Place Block E, No.31, Lane 168, Daduhe Road,
Putuo District, Shanghai, China, Post Code: 200062

The certificate can be verified at www.dqsglobal.com as well as CNCA official website www.cnca.gov.cn.

The validity of this certificate can only be verified by the QR-code.



Annex to certificate
Registration No. 20000617 EMSt21

Cyntec Electronics (Suzhou) Co., Ltd.

No. 168, Jishi East Road, Wujiang Economic Development Zone, Suzhou City
JiangSu Province 215200
China

Location

20000616

Cyntec Electronics (Suzhou) Co., Ltd.

No. 688, Xiuhu West Road
Wujiang Economic Technology
Development Zone, Suzhou City
Jiangsu Province 215200
China

Scope

The design and manufacture of resistors, thin film platinum resistance temperature detectors, chip resistors, resistor networks and inductors.

Unified Social Credit Code:

913205097933133056

Audit Type/Time	Energy Consumption Per Unit Product in Audit Cycle	Energy Consumption Accounting Boundary
2nd Surveillance Jan 30 2023 to Feb 02 2023	From January to December, 2022 Comprehensive energy consumption per unit product : P1 0.98 tce/MPCs P2 0.023 tce/MPCs Comprehensive energy consumption per unit output value: P1 2.65 tce/Million dollars P2 4.75 tce/Million dollars	The production system, auxiliary production system and subsidiary production system involved in inductors, power models, radio frequency modules and print circuit board assemblies which located in No. 168, Jishi East Road, Wujiang Economic Development Zone, Suzhou City JiangSu Province, China(P1), & resistors, thin film platinum resistance temperature detectors and inductors which located in No. 688, Xiuhu West Road, Wujiang Economic Development Zone, Suzhou City JiangSu Province, China(P2). The production process includes powder making / mold /hot press / molding / vehicle inductor / T-core/passive/LTCC/SMT etc. The main types of energy are electric power and natural gas.
Initial/Recertification Dec. 18 2023 to Dec. 26 2023	From January to November, 2023 Comprehensive energy	The production system, auxiliary production system and subsidiary production system involved in inductors, power models, radio

This annex (edition: 2024-01-25) is only valid in connection with the above-mentioned certificate.



Annex to certificate
Registration No. 20000617 EMSt21

Cyntec Electronics (Suzhou) Co., Ltd.

No. 168, Jishi East Road, Wujiang Economic Development Zone, Suzhou City
JiangSu Province 215200
China

	consumption per unit product : P1- 1.22 tce/MPCs P2- 0.019 tce/MPCs Comprehensive energy consumption per unit output value: P1-2.76 tce/Million dollars P2-3.65 tce/Million dollars	frequency modules and print circuit board assemblies which located in No. 168, Jishi East Road, Wujiang Economic Development Zone, Suzhou City JiangSu Province, China(P1), thin film platinum resistance temperature detectors, chip resistors, resistor networks and inductors which located in No. 688, Xiuhu West Road, Wujiang Economic Development Zone, Suzhou City JiangSu Province, China(P2). The production process includes powder making / mold /hot press / molding / vehicle inductor / T- core/passive/LTCC/SMT etc. The main types of energy are electric power and natural gas.
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证书



兹证明，

华丰电子科技(芜湖)有限公司

中国（安徽）自由贸易试验区芜湖片区龙山街道九华北路 138 号
邮政编码：241000

统一社会信用代码：91340200MA2UGKP5XE(1-1)

已实施并维持一个**能源管理体系**。

在如下范围内：

电感器和分流器之设计和制造。

获证组织年度产品单位产量综合能耗及能耗核算边界，见标有相同证书注册号的证书附件，
证书附件是本证书组成部分。

经过审核，其结果已记录于审核报告中，
证实该管理体系满足以下标准的要求：

ISO 50001 : 2018

证书注册号 50600424 EMSt18

有效期自 2023-02-14

有效期至 2026-02-13

批准日期 2023-02-14



DQS GmbH

Markus Bleher
总经理

Accredited Body: DQS GmbH, August-Schanz-Straße 21, 60433 Frankfurt am Main, Germany
Administrative Office: DQS Holding GmbH, Konrad-Adenauer-Allee 8-10, 61118 Bad Vilbel, Germany
Responsible Office: 德世爱普认证（上海）有限公司, 中国上海市普陀区大渡河路168弄31号北岸长风E栋9层06, 07 室, 邮政编码: 200062

本证书可在我司官网 www.dqsglobal.com 上查询，亦可在国家认证认可监督管理委员会官方网站 www.cnca.gov.cn 上查询

The validity of this certificate can only be verified by the QR-code.

DQS IS A MEMBER OF





证书(注册号: 50600424 EMSt18) 附件

华丰电子科技(芜湖)有限公司

中国(安徽)自由贸易试验区芜湖片区龙山街道九华北路 138 号
邮政编码: 241000

统一社会信用代码: 91340200MA2UGKP5XE(1-1)

审核类型及时间	审核周期单位产品能耗	能耗核算边界
初次认证/再认证 2022年12月26日 至2022年12月28日	2021 年 1-12 月, 单位产品综合能耗: 1.01 吨标煤/百万件 单位产值综合能耗: 0.312 吨标煤/万美元	位于中国(安徽)自由贸易试验区芜湖片区龙山街道九华北路 138 号内的电感器和分流器之设计和制造。所涉及生产系统、辅助生产系统和附属生产系统。生产过程包括造粉/模具/热压/成型/冲压/焊接/电镀等。 主要能源种类为电力和天然气。
	2022 年 1-11 月, 单位产品综合能耗: 0.927 吨标煤/百万件 单位产值综合能耗: 0.266 吨标煤/万美元	位于中国(安徽)自由贸易试验区芜湖片区龙山街道九华北路 138 号内的电感器和分流器之设计和制造。所涉及生产系统、辅助生产系统和附属生产系统。生产过程包括造粉/模具/热压/成型/冲压/焊接/电镀等。 主要能源种类为电力和天然气。

DMSZ

C E R T I F I C A T E

DMSZ Deutsche Managementsystem Zertifizierungsgesellschaft mbH

hereby certifies that the company



DELTA Electronics (Germany) GmbH

Ferdinand-Porsche-Straße 45
60386 Frankfurt / Main
Germany

with the units as listed in the annex
for the scope

**Design, Engineering, Sales, Installation and Maintenance of High-End Power Systems and Equipment
for Telecommunications, Data Center, Industrial and Renewable Energy**

has implemented and maintains an

Energy Management System

An audit, documented in a report, has verified that this management system fulfills the requirements of the
following standard:

DIN EN ISO 50001:2018

This certificate is valid from 2023-12-22 until 2026-02-27

Certificate Registration No.: EM 00425-Z03358

Griesheim, Germany, 2023-12-22



Stefan Eckhardt
Stefan Eckhardt
Managing Director

Hans-W. Lörtz
Hans-Werner Lörtz
Head of Certification Body



**Annex to Certificate Registration No.: EM 00425-Z03358
of the company DELTA Electronics (Germany) GmbH**

Units

DELTA Montage GmbH
Ferdinand-Porsche-Straße 45
60386 Frankfurt / Main

Scope

Installation of High-End Power Systems and Equipment for Telecommunications, Data Center, Industrial and Renewable Energy

