CERTIFICATE OF COMPLIANCE

Certificate Number	E338926
Report Reference	E338926-19950322
Issue Date	2020-SEPTEMBER-07
Issued to:	TDK (Zhuhai FTZ) Co., Ltd. No. 4 Lianfeng Road, Xiangzhou District Zhuhai Guangdong 519030 CHINA
This certificate confirms that representative samples of	COMPONENT - THERMISTOR-TYPE DEVICES Refer to Addendum page for models Have been investigated by UL in accordance with the component requirements in the Standard(s) indicated on this Certificate. UL Recognized components are incomplete in certain constructional features or restricted in performance capabilities and are intended for installation in complete equipment submitted for investigation to UL LLC.
Standard(s) for Safety:	UL 1434 - Thermistor Type Devices Technical Information Letter Class No. 9073 31
Additional Information:	See the UL Online Certifications Directory at https://iq.ulprospector.com for additional information.

This *Certificate of Compliance* does not provide authorization to apply the UL Recognized Component Mark. Only the UL Follow-Up Services Procedure provides authorization to apply the UL Mark.

Only those products bearing the UL Recognized Component Mark should be considered as being UL Certified and covered under UL's Follow-Up Services.

Look for the UL Recognized Component Mark on the product.

Bruce Mahrenholz, Director North American Certification Program

UL LLC

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CERTIFICATE OF COMPLIANCE

Certificate Number	E338926
Report Reference	E338926-19950322
Issue Date	2020-SEPTEMBER-07

This is to certify that representative samples of the product as specified on this certificate were tested according to the current UL requirements.

MODELS

Component, Negative Temperature Coefficient (NTC) Thermistor Type Devices - Current Limiters
S153/4.7/XYZZ, S153/8/XYZZ, S153/10/XYZZ, S153/15/XYZZ, S153/16/XYZZ, S153/20/XYZZ, S153/33/XYZZ, S234/1.0/XYZZ, S234/2.2/XYZZ, S234/2.5/XYZZ, S234/4.7/XYZZ, S234/5.0/XYZZ, S234/7.0/XYZZ, S234/10/XYZZ, S234/15/XYZZ, S234/22/XYZZ, S234/33/XYZZ, S235/2.5/XYZZ, S235/2.5/L2[2], S235/4.7/XYZZ, S235/4.7/L2[2], S235/5.0/XYZZ, S235/5.0/L2[2], S235/6.0/XYZZ, S235/6.0/L2[2], S235/8.0/XYZZ, S235/8.0/L2[2], S235/10/XYZZ, S235/10/L2[2], S236/2.2/XYZZ, S236/2.5/XYZZ, S236/2.5/L2[2], S236/3.0/XYZZ, S236/3.0/L2[2], S236/4.7/XYZZ, *S236/5.0/A4, S236/5.0/XYZZ, S236/5.0/L2[2], S236/8.0/XYZZ, S236/8.0/L2[2], , S236/10/XYZZ, S236/12/XYZZ, S236/16/XYZZ, S236/20/A1, S236/20/XYZZ, S236/25/XYZZ, S236/50/XYZZ, S236/80/XYZZ, S236/120/XYZZ, S237/1.0/XYZZ, S237/1.3/XYZZ, S237/2.2/XYZZ, S237/2.5/XYZZ, S237/2.5/L2[2], S237/4.7/XYZZ, S237/5.0/XYZZ, S237/7.0/XYZZ, S237/7.0/L2[2], S237/10/XYZZ, S237/15/XYZZ, S237/22/XYZZ, S237/33/XYZZ, S237/60/A1, S237/60/xyzz, S238/1.0/XYZZ, S238/2.5/XYZZ, S238/2.5/L2[2], S238/3.0/XYZZ, S238/4.7/XYZZ, S238/5.0/XYZZ, S238/5.0/L2[2], S238/7.0/XYZZ, S238/8.0/XYZZ, S238/10/XYZZ, S238/15/XYZZ, S238/16/XYZZ, S238/22/XYZZ, S238/25/XYZZ, S364/1.0/XYZZ, S364/1.0/L2[2], S364/2.0/XYZZ, S364/2.5/XYZZ, S364/4.0/XYZZ, S364/5.0/XYZZ, S364/10/XYZZ, I011/2.5/XYZZ2, I011/4.7/XYZZ2, I011/5.0/XYZZ2, I011/10/XYZZ2, I011/12/XYZZ2, I011/16/XYZZ2, I011/20/XYZZ2, I011/50/XYZZ2, I011/80/XYZZ2, *S464/1.0/XYZZ, S464/1.0/AYZZ[1)], S464/1.3/XYZZ, S464/1.5/XYZZ, S464/2.0/XYZZ, S464/2.2/XYZZ, S464/2.5/XYZZ, S464/3.0/XYZZ, S464/4.0/XYZZ, S464/4.7/XYZZ, S464/5.0/XYZZ, S464/6.0/XYZZ, S464/6.8/XYZZ, S464/7.0/XYZZ, S464/8.0/XYZZ, S464/10/XYZZ, P11/1/XYZN, P11/1.3/XYZN, P11/2.5/XYZN, P11/4/XYZN, P11/4.7/XYZN, P11/5/XYZN, P11/7/XYZN, P11/8/XYZN, P11/10/XYZN, P11/12/XYZN, P11/15/XYZN, P11/16/XYZN, P11/18/XYZN, P11/20/XYZN, P11/22/XYZN, P11/25/XYZN, P11/30/XYZN, P11/33/XYZN, P11/40/XYZN, P11/47/XYZN, P11/60/XYZN, P11/80/XYZN, P11/100/XYZN, P11/120/XYZN, P13/1/XYZN, P13/1.3/XYZN, P13/1.5/XYZN, P13/2/XYZN, P13/2.5/XYZN, P13/3/XYZN, P13/4/XYZN, P13/4.7/XYZN, P13/5/XYZN, P13/6/XYZN, P13/7/XYZN, P13/8/XYZN, P13/10/XYZN, P13/12/XYZN, P13/15/XYZN, P13/16/XYZN, P13/18/XYZN, P13/20/XYZN, P13/22/XYZN, P13/25/XYZN, P13/30/XYZN, P13/33/XYZN, P13/40/XYZN, P13/47/XYZN, P13/60/XYZN, P13/80/XYZN, P13/100/XYZN, P13/120/XYZN, P27/0.5/XYZZ, P27/1.0/XYZZ, P27/1.3/XYZZ, P27/1.5/XYZZ, P27/2.0/XYZZ, P27/2.2/XYZZ, P27/2.5/XYZZ, P27/3.0/XYZZ, P27/4.0/XYZZ, P27/4.7/XYZZ, P27/5.0/XYZZ, P27/6.0/XYZZ, P27/6.8/XYZZ, P27/7.0/XYZZ, P27/8.0/XYZZ, P27/10/XYZZ,

[1)] Customer specific version

Bruce Mahrenholz, Director North American Certification Program

UL LLC

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CERTIFICATE OF COMPLIANCE

Certificate Number	E338926
Report Reference	E338926-19950322
Issue Date	2020-SEPTEMBER-07

1) The letters XYZZ or XYZN have following denotation in the type designation:

X ... Resistance tolerance at 25°C (R25) where A(no tolerance information), M(±20%), L(±15%), S(±15%) and K(±10%) or X=A (customer specific types - no tolerance information). If X=A then YZZ is a sequential number (000-999) not affecting the UL specification in terms of dimensions or electrical ratings.

Y ... Number (0-9) indicates different wire shapes (straight, kinked) or other customer specific requirements; not affecting UL specification!

ZZ... Packing code

If Y=0 then only XZZ is mentioned, if Y>0 and ZZ=00 then only XY is mentioned, if Y=0 and ZZ=00 then only X is mentioned; not affecting UL specifications.

ZN... Packing code

Z: Indicates packing code
N: A sequential number (1-9) indicates other customer specific requirements; not affecting UL specifications.

2)Insulation voltage rating 250 V ac

USR indicates compliance with Standard for Thermistor-Type Devices, UL 1434.

CNR indicates compliance with Canadian requirements as per Component Acceptance Services (CLASS 9073 31) Memo dated 7-9-99 or Technical Information Letter Class No. 9073 31.

Bruce Mahrenholz, Director North American Certification Program

UL LLC

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Certificate of Compliance

Certificate Number(s):

UL-US-L338926-62361-13503202-2

Report Reference:

E338926-20230531

Issue Date:

2026-09-07

Issued to:

TDK (Zhuhai FTZ) Co., Ltd.
No. 4 Lianfeng Road, Xiangzhou District, Zhuhai, Guangdong, 519030, CN

This certificate confirms that representative samples of:
XGPU2 - Thermistor-type Devices - Component

See Addendum Page for Product Designation(s).

Have been evaluated by UL in accordance with the component requirements in the Standard(s) indicated on this Certificate. UL Recognized components are incomplete in certain constructional features or restricted in performance capabilities and are intended for installation in complete equipment submitted for investigation to UL LLC.

UL 1434, Edition: 1, Issue Date: 1998-4-3, Revision Date: 2021-5-18

Additional Information:
See UL Product iQ® at https://iq.ulprospector.com for additional information.

This Certificate of Compliance indicates that representative samples of the product described in the certification report have met the requirements for UL certification. It does not provide authorization to apply the UL Recognized Component Mark. Only the Authorization Page that references the Follow-Up Services Procedure for ongoing surveillance provides authorization to apply the UL Mark.

Only those products bearing the UL Recognized Component Mark should be considered as being UL Certified and covered under UL's Follow-Up Services.

Look for the UL Recognized Component Mark on the product.

David Piecuch
UL Mark Certification Program Manager

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CERTIFICATE OF COMPLIANCE

Certificate number(s): UL-US-L338926-62361-13503202-2
Report reference: E338926-20230531
Issue Date: 2026-09-07

This is to certify that representative samples of the product as specified on this certificate were tested according to the current UL requirements.

Inrush-limiting NTC

Model(s): S238/30/XYZZ, S238/40/XYZZ, S238/47/XYZZ, S238/60/XYZZ, S238/80/XYZZ

Model(s): P27/20/XYZZ, P27/25/XYZZ, S30/0.3/XYZZ, S30/0.5/XYZZ, S30/1.0/XYZZ, S30/10/XYZZ, S30/15/XYZZ, S30/2.0/XYZZ, S30/20/XYZZ, S30/25/XYZZ, S30/5.0/XYZZ, S36/0.4/XYZZ, S36/0.5/XYZZ, S36/1.0/XYZZ, S36/10/XYZZ, S36/2.0/XYZZ, S36/20/XYZZ, S36/3.0/XYZZ, S36/5.0/XYZZ *X can be K, L, S, M, A.*
Y may be number 0-9 or blank. ZZ may be number 00-99 or blank.

Model(s): S30/4.0/XYZZ *X can be K, L, S, M, A.*
Y may be number 0-9 or blank. ZZ may be number 00-99 or blank.

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Certificate of Compliance

Certificate Number(s):

UL-CA-L338926-62381-13503202-2

Report Reference:

E338926-20230531

Issue Date:

2026-09-07

Issued to:

TDK (Zhuhai FTZ) Co., Ltd.
No. 4 Lianfeng Road, Xiangzhou District, Zhuhai, Guangdong, 519030, CN

This certificate confirms that representative samples of:

XGPU8 - Thermistor-type Devices Certified for Canada - Component

See Addendum Page for Product Designation(s).

Have been evaluated by UL in accordance with the component requirements in the Standard(s) indicated on this Certificate. UL Recognized components are incomplete in certain constructional features or restricted in performance capabilities and are intended for installation in complete equipment submitted for investigation to UL LLC.

CSA COMPONENT ACCEPTANCE SERVICE CLASS NO. 9073 31, Issue Date: 1991-7-9
CSA E60730-1, Edition 6, Issue Date 2025-07

Additional Information:
See UL Product iQ® at https://iq.ulprospector.com for additional information.

This Certificate of Compliance indicates that representative samples of the product described in the certification report have met the requirements for UL certification. It does not provide authorization to apply the UL Recognized Component Mark. Only the Authorization Page that references the Follow-Up Services Procedure for ongoing surveillance provides authorization to apply the UL Mark.

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Look for the UL Recognized Component Mark on the product.

David Piecuch
UL Mark Certification Program Manager

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CERTIFICATE OF COMPLIANCE

Certificate number(s): UL-CA-L338926-62381-13503202-2
Report reference: E338926-20230531
Issue Date: 2026-09-07

This is to certify that representative samples of the product as specified on this certificate were tested according to the current UL requirements.

Inrush-limiting NTC

Model(s): S238/30/XYZZ, S238/40/XYZZ, S238/47/XYZZ, S238/60/XYZZ, S238/80/XYZZ

Model(s): P27/20/XYZZ, P27/25/XYZZ, S30/0.3/XYZZ, S30/0.5/XYZZ, S30/1.0/XYZZ, S30/10/XYZZ, S30/15/XYZZ, S30/2.0/XYZZ, S30/20/XYZZ, S30/25/XYZZ, S30/5.0/XYZZ, S36/0.4/XYZZ, S36/0.5/XYZZ, S36/1.0/XYZZ, S36/10/XYZZ, S36/2.0/XYZZ, S36/20/XYZZ, S36/3.0/XYZZ, S36/5.0/XYZZ *X can be K, L, S, M, A.*
Y may be number 0-9 or blank. ZZ may be number 00-99 or blank.

Model(s): S30/4.0/XYZZ *X can be K, L, S, M, A.*
Y may be number 0-9 or blank. ZZ may be number 00-99 or blank.

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