


UL-EU CERTIFICATE

Certificate No.	UL-EU-01880-M2
Page	1/4
Date of Issue	2024-01-10
Certificate Holder	FLEX ELECTRONICS (SHANGHAI) CO LTD 33 FUHUA ROAD,JIADING DISTRICT SHANGHAI, Shanghai Shi, 201818 CHINA
Production site	FLEX ELECTRONICS (SHANGHAI) CO LTD 33 FUHUA ROAD,JIADING DISTRICT SHANGHAI, SHANGHAI SHI, 201818 CHINA
Certified Product	DC-DC Converter
Model	PIM 4328 P*, PIM 4328 PD*, PIM 4328 PDA*, PIM 4820B PD* See page 2 for additional Information
Trademark	
Ratings	(optional) For models PIM 4328 P*, PIM 4328 PD*, PIM 4328 PDA*: Input rated: 36-72 V dc See page 2 for additional ratings
Tested acc. to	EN 62368-1:2014, EN 62368-1:2014/A11:2017
Test Report No.	E496569-A6011-CB-1 issued on 2024-01-10
Additional	The report was revised to include technical modifications. Summary of Modifications: Addition of new suffix to models, Addition of National standards, see CB Test Report for details. This Certificate replaces Certificate No.: UL-EU-01880-M1 issued on 2021-04-14.
Expire date	2024-07-06

Certification Manager
Thomas Wilson
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2750 Ballerup
Denmark

This is to certify that representative sample(s) of the Product described herein ("Certified Product") have been investigated and found in compliance with the Standard(s) indicated on this Certificate, in accordance with the UL-EU Requirements. As specified in the respective appendices below the designated Certificate holder is entitled to use the UL-EU Mark, or its alternative for cables, for the Certified Product manufactured at the production site(s) identified above, in accordance with the UL-EU Mark Service Agreement, including without limitation the UL-EU Mark Testing and Certification Services Service Terms. Only those Products bearing the UL-EU Mark for Europe should be considered as being covered by UL's UL-EU Mark Service. This Certificate shall remain valid through the expiration date, unless terminated earlier in accordance with the Service Agreement including without limitation if the Standard(s) identified on this Certificate is amended or withdrawn prior the expiration date.

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Appendix UL-EU CERTIFICATE

Certificate No. UL-EU-01880-M2

Page 2/4

Date of Issue 2024-01-10

Additional Model Detail(s):

PIM 4328 P*, PIM 4328 PD*, PIM 4328 PDA*, PIM 4820B PD*
May be followed by alphanumeric suffix (not safety related),

PIM 4328 PD*, PIM 4328 PDA*, PIM 4328 P*,

* means the model name may be followed by following suffixes:

LA - pins cut to 3.69 mm (default: 5.33 mm)

LB - pins cut to 4.57 mm (default: 5.33 mm)

E -enable ON and OFF levels, 32 and 30 V (default: 35 and 33 V)

OP- oring FETs update from 120Vds rating to 150Vds rating to support 75V input voltage reverse polarity

M: without pick-up tag

LC: 2.79mm lead length

OE - Optional environmental configuration/design (i.e. anti-sulfur)

PIM 4820B PD*,

* means the model name may be followed by suffixes

HS and/or LA and LB for different pin length option and/or suffix OP for earlier hold up trigger option (a minor firmware difference), where:

HS - baseplate

LA - 3.69mm lead length (5.33mm is standard)

LB - 4.57mm lead length (5.33mm is standard)

OP – earlier hold up trigger

LD- 4.0mm pin lead length

1-pin in paste & soft tray

2- pin in paste & hard tray

M: without pick-up tag

LC: 2.79mm lead length

Additional Ratings:

(optional)

For models PIM 4328 P*, PIM 4328 PD*, PIM 4328 PDA*:

Input rated: 36-72 V dc

Outputs rated:

output 1: Filtered Output rated, 36-72 V dc, 10 A

output 2: 3.3 V dc, 3.6 A

output 3: 5.0 V dc, 150 mA

For model PIM 4820B PD*:

Main inputs rated: 36-75Vdc

External input rated: 5-14.4 Vdc

Outputs rated:

output 1: 36-75 Vdc, 20 A

output 2: 0.85-7.0 Vdc, 15 W without external input

0.85-7.0 Vdc, 5 A with external input

IPX0, Not classified, for building-in.

Appendix UL-EU CERTIFICATE

Certificate No. UL-EU-01880-M2

Page 3/4

Date of Issue 2024-01-10

Certification Mark UL-EU Mark

The UL-EU Mark, as displayed below, shall appear on certified products only. Minimum size is not specified, as long as the Mark is legible. The following is suggested.



The minimum height of the registered trademark symbol ® shall be 1 mm. When the overall diameter of the UL-EU Mark is less than 9.5 mm, the trademark symbol may be omitted if it is not legible to the naked eye.

The UL-EU Mark may appear on a label, nameplate, or may be cast, stamped or molded into the product. When appearing on a label or nameplate, the Manufacturer's name or trademark along with a model number are also required on that same label or nameplate. If cast, stamped or molded, the Certificate Manufacturer's name or trademark and model number shall also appear elsewhere on the product.

All content shall be in accordance with the details provided on this UL-EU Certificate.

PROCUREMENT

The Production site may reproduce the Mark or obtain it from a UL authorized supplier. The list of UL authorized suppliers can be found on UL's online directory at www.ul.com

Certification Body

UL International Demko A/S, Borupvang 5A, 2750 Ballerup
Denmark

Appendix UL-EU CERTIFICATE

Certificate No. UL-EU-01880-M2

Page 4/4

Date of Issue 2024-01-10

Alternate certification Mark for cables

As an alternative to the UL-EU Mark specified above the alternate UL-EU Mark, displayed below, can appear on certified cables only. Minimum size is not specified, as long as the mark is legible. The following is suggested:

(UL)-EU

The alternate UL-EU Mark may be cast, stamped or molded into the cable and continue throughout the length of the cable as specified in the applicable cable standard.

All content shall be in accordance with the details provided on this UL-EU Certificate.

Certification Body

UL International Demko A/S, Borupvang 5A, 2750 Ballerup
Denmark