


UL-EU CERTIFICATE

Certificate No.	UL-EU-02218-M2
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Date of Issue	2023-09-26
Certificate Holder	FLEX ELECTRONICS (SHANGHAI) CO LTD 33 FUHUA ROAD,JIADING DISTRICT SHANGHAI, Shanghai, 201818 CHINA
Production site	FLEX ELECTRONICS (SHANGHAI) CO LTD 33 FUHUA ROAD,JIADING DISTRICT SHANGHAI, SHANGHAI, 201818 CHINA
Certified Product	DC-DC Converter
Model	1) PKJ4716A* 2) PKJ4716H* 3) PKJ4716H*UA* 4) PKJ4716HD* 5) PKJ4716HD*UA* 6) PKJ4416HD* See page 2 for additional Information
Trademark	
Ratings	(optional) Input for 1), 2) and 4): 36-75Vdc, Max.25A, Input for 3) and 5): 34.5-60 Vdc, Max.25A, Input for 6): 36-60Vdc, Max.14A Output for 1): 28Vdc, Max.25A, Output for 2),3),4) and 5): 50Vdc, Max.14A, 700W Output for 6): 50Vdc, Max.9A Not classified
Tested acc. to	EN 62368-1:2014, EN 62368-1:2014/A11:2017
Test Report No.	E496569-A6040-CB-1 issued on 2023-09-26
Additional	The report was revised to include technical modifications. This Certificate replaces earlier issued certificate No. UL-EU-02218-M1 due to: Add new model PKJ4416HD* which is identical to PKJ4716HD* except for lower power.
Expire date	2024-07-06

Certification Manager
Thomas Wilson
UL International Demko A/S
Borupvang 5A
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with the Service Agreement including without limitation if the Standard(s) identified on this Certificate is amended or withdrawn prior the expiration date.

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Additional Model(s):

Series: PKJ4416HD*, PKJ4716HD*, PKJ4716HD*UA*, PKJ4716H*, PKJ4716H*UA*, PKJ4716A*,

* can be PI, HS, P, OP, LA, UA, UC, OS, SI, HV, OC, OA and by any combination of above characters representing minor differences that do not affect safety.

The definition is as follows:

PI - pins for through hole mounting

PI may be followed by a combination of the following additional suffixes:

P - positive remote control (negative remote control is standard)

LA - lead length 3.69 mm (0.145 in.) (5.33 mm (0.210 in.) is standard)

LB - lead length 4.57 mm (0.180 in.) (5.33 mm (0.210 in.) is standard)

LC - lead length 2.79 mm (0.110 in.) (5.33 mm (0.210 in.) is standard)

HS - base plate

M – baseplate with thread

G - baseplate with ground pin

OP – optional part list

UA - Input voltage minimum is 34.5V

UC-no laser marking in baseplate

OS -optional part list for sense

SI - pins for surface mounting

HV - baseplate with wings

OC - custom optimized control loop

OA - Optional output adjust

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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

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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