



Ref. Certif. No.

**DK-141229-UL**

**IEC SYSTEM FOR MUTUAL RECOGNITION OF TEST CERTIFICATES FOR ELECTRICAL EQUIPMENT (IECEE) CB SCHEME**

**CB TEST CERTIFICATE**

Product	DC-DC Converter
Name and address of the applicant	Flex Electronics (Shanghai) Co Ltd 33 Fuhua Road, Jiading District Shanghai, 201818 China
Name and address of the manufacturer	Flex Electronics (Shanghai) Co Ltd 33 Fuhua Road, Jiading District Shanghai, 201818 China
Name and address of the factory	Flex Electronics (Shanghai) Co Ltd 33 Fuhua Road, Jiading District Shanghai, 201818 China
Note: When more than one factory, please report on page 2	<input checked="" type="checkbox"/> <a href="#">Additional Information on page 2</a>
Ratings and principal characteristics	(optional) For model PKU4213D*, Input: 36-75Vdc, Max.9A; Output: 12Vdc, Max.15A; <input checked="" type="checkbox"/> <a href="#">Additional Information on page 3</a>
Trademark / Brand (if any)	
Customer's Testing Facility (CTF) Stage used	CTF Stage 2
Model / Type Ref.	PKU4213D*, PKU4213D PIHS, PKU4113D*, PKU4113D PIHS, PKU4111D* <input checked="" type="checkbox"/> <a href="#">Additional Information on page</a>
Additional information (if necessary may also be reported on page 2)	<b>Additionally evaluated to:</b> EN 62368-1:2014, EN 62368-1:2014/A11:2017  National Differences: EU Group Differences, CA, US <input type="checkbox"/> <a href="#">Additional Information on page 2</a>
A sample of the product was tested and found to be in conformity with	IEC 62368-1:2014
As shown in the Test Report Ref. No. which forms part of this Certificate	OFF-4788288629-C-1 issued on 2023-08-18

This CB Test Certificate is issued by the National Certification Body



- UL Solutions (US), 333 Pfingsten Rd IL 60062, Northbrook, USA
- UL Solutions (Demko), Borupvang 5A DK-2750 Ballerup, DENMARK
- UL Solutions (JP), Marunouchi Trust Tower Main Building 6F, 1-8-3 Marunouchi, Chiyoda-ku, Tokyo 100-0005, JAPAN
- UL Solutions (CA), 7 Underwriters Road, Toronto, M1R 3B4 Ontario, CANADA

For full legal entity names see [www.ul.com/ncbnames](http://www.ul.com/ncbnames)

Date: 2023-08-18

Signature:  
Thomas Wilson



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**Factory(ies):**

FLEXTRONICS TECHNOLOGY (PENANG) SDN BHD  
BUKIT MINYAK INDUSTRIAL PARK S P T  
PLOT 131A JALAN PERINDUSTRIAN BUKIT  
BUKIT MINYAK SIMPANG AMPAT, Pulau Pinang 14100  
Malaysia

**Additional Model Detail(s):**

PKU4213D\*, PKU4213D PIHS, PKU4113D\*, PKU4113D PIHS, PKU4111D\*, PKU4111D PIHS, PKU4110D\*, PKU4110D PIHS, PKU4217D PIHS, PKU4217D\*, PKU4113D PIOLA, PKU4111D PIHSLA, PKU4913D\*, PKU3913D\*, PKU4116HD\*, PKU4105C PILA, PKU4317D\*

\* represents PI or SI may be followed by a combination of the additional suffixes,

All models have suffixes that represent minor differences that do not affect safety.  
All models have one of the following suffixes:

- PI - pins for through hole mounting
- SI - pins for surface mounting
- PI or SI may be followed by a combination of the following additional suffixes:
- P - positive remote control (negative remote control is standard)
- M - increased stand-off and height
- 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)
- LD - lead length 2.40 mm (0.094 in.) (5.33 mm (0.210 in.) is standard)
- NB - no base plate (PKB-B models only)
- OP - optional part list
- HS - base plate
- LHS-low base plate
- HV - baseplate with wings
- G - baseplate with ground pin (HV baseplate only)
- OC - custom optimized control loop
- OV - 36-60V input voltage
- OA - 1.5 V output voltage
- OB - 1.2 V output voltage
- LV - latching over voltage protection
- LT - latching over temperature protection
- LI - latching over current protection
- LP - latching over temperature and over voltage protection
- LIV - latching over current and over voltage protection
- LIT - latching over current and over temperature protection
- LPA - latching over voltage, over temperature and over current protection
- OT - change under voltage at shut down level
- O - electrical optional part list
- NT - no trim function

**Additional information (if necessary)**



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**Additional Ratings:**

(optional)

For model PKU4213D\*, Input: 36-75Vdc, Max.9A;

Output: 12Vdc, Max.15A;

For model PKU4213D PIHS, Input: 36-75Vdc, Max.10A; Output: 12Vdc, Max. 17A;

For Model PKU4113D\*, and PKU4113D PIHS, Input: 36-75Vdc, Max.7A; Output: 12Vdc, Max. 10A;

For Model PKU4111D\*, Input: 36-75Vdc, Max.6.5A; Output: 5Vdc, Max.27A;

For Model PKU4111D PIHS, Input: 36-75Vdc, Max.7A; Output: 5Vdc, 30A;

For Model PKU4110D\*, Input: 36-75Vdc, Max.4.5A: Output: 3.3Vdc, Max.30.3A;

For Model PKU4110D PIHS, Input: 36-75Vdc, Max.5A; Output: 3.3Vdc, Max. 33.3A

For Model PKU4217D PIHS, PKU4217D\*, Input: 36-60Vdc, Max.7.5A; Output: 10.4Vdc, 25A

For Model PKU4113D PIOLA, Input: 36-75Vdc, Max.7A;

Output: 12Vdc, Max.10A

For Model PKU4111D PIHSLA, Input: 36-75Vdc, Max.4.5A; Output: 5Vdc, 30A

For Model PKU4913D\*, Input: 36-75Vdc, Max.3.2A; Output: 12Vdc, 100W

For Model PKU3913D\*, Input: 30-60Vdc, Max.3.6A; Output: 12Vdc, 100W

For Model PKU4116HD\*, Input: 36-60Vdc, Max.3.3A,

Output: 55Vdc, 2A

For Model PKU4105C PILA, Input: 36-75Vdc,

Output: 5Vdc, 100W

For Model PKU4317D\*, Input: 48-60Vdc, Max 7.5A, Output: 12Vdc, 25A

**Additional information (if necessary)**



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