

# CERTIFICATE OF COMPLIANCE

**Certificate Number** UL-US-L496569-2113-90408102-6  
**Report Reference** E496569-20180409  
**Date** 25-May-2023

**Issued to:** Flex Electronics (Shanghai) Co Ltd  
33 Fuhua Road, Jiading District  
Shanghai, Shanghai Shi 201818  
China

**This is to certify that representative samples of** QQJQ2 - Power Supplies for Use with Audio/Video, Information and Communication Technology Equipment - 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.

**Standard(s) for Safety:** UL 62368-1, 2nd Ed., Issue Date: 2014-12-01

**Additional Information:** See the UL Online Certifications Directory 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.

*Deborah Jennings-Conner*

Deborah Jennings-Conner, VP Regulatory Services

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Model	Category Description
<p>PKU3913D*, * represents PI or SI may be followed by a combination of the additional suffixes, see below for each suffix.</p> <p>All models have suffixes that represent minor differences that do not affect safety.</p> <p>All models have one of the following suffixes: PI - pins for through hole mounting SI - pins for surface mounting</p> <p>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</p>	DC-DC Converter

  
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O - electrical optional part list NT – no trim function	
PKU4105C PILA	DC-DC Converter
PKU4110D PIHS	Power Supplies for AV, ITE, and AVICT Equipment
<p>PKU4110D*, * represents PI or SI may be followed by a combination of the additional suffixes, see page 3 for each suffix.</p> <p>All models have suffixes that represent minor differences that do not affect safety.</p> <p>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</p>	Power Supplies for AV, ITE, and AVICT Equipment

  
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O - electrical optional part list NT – no trim function	
PKU4111D PIHS	Power Supplies for AV, ITE, and AVICT Equipment
PKU4111D PIHSLA	Power Supplies for AV, ITE, and AVICT Equipment
PKU4111D*	Power Supplies for AV, ITE, and AVICT Equipment
PKU4113D PIHS	Power Supplies for AV, ITE, and AVICT Equipment
PKU4113D PIOLA	Power Supplies for AV, ITE, and AVICT Equipment
<p>PKU4113D*, * represents PI or SI may be followed by a combination of the additional suffixes, see page 3 for each suffix.</p> <p>All models have suffixes that represent minor differences that do not affect safety.</p> <p>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</p>	Power Supplies for AV, ITE, and AVICT Equipment

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**Date**                        25-May-2023

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	
PKU4116HD*, * represents PI or SI may be followed by a combination of the additional suffixes, see page 3 for each suffix.	DC-DC Converter
PKU4213D PIHS	Power Supplies for AV, ITE, and AVICT Equipment
PKU4213D*, * represents PI or SI may be followed by a combination of the additional suffixes, see page 3 for each suffix.  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	Power Supplies for AV, ITE, and AVICT Equipment

  
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**Date**                      25-May-2023

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	
PKU4217D PIHS	Power Supplies for AV, ITE, and AVICT Equipment
PKU4217D*	Power Supplies for AV, ITE, and AVICT Equipment
PKU4317D*, * represents PI or SI may be followed by a combination of the additional suffixes	DC-DC Converter
PKU4913D*, * represents PI or SI may be followed by a combination of the additional suffixes, see below for each suffix.  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	Power Supplies for AV, ITE, and AVICT Equipment

  
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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	
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# CERTIFICATE OF COMPLIANCE

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**Report Reference** E496569-20180409  
**Date** 25-May-2023

**Issued to:** Flex Electronics (Shanghai) Co Ltd  
33 Fuhua Road, Jiading District  
Shanghai, Shanghai Shi 201818  
China

**This is to certify that  
representative samples of**

QQJQ8 - Power Supplies for Use with Audio/Video,  
Information and Communication Technology Equipment  
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.

**Standard(s) for Safety:** CSA C22.2 No. 62368-1-14, 2nd Ed., Issue Date: 2014-12-01

**Additional Information:** See the UL Online Certifications Directory at  
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<b>Model</b>	<b>Category Description</b>
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<p>PKU4116HD*, * represents PI or SI may be followed by a combination of the additional suffixes, see page 3 for each suffix.</p>	<p>DC-DC Converter</p>
<p>PKU4213D PIHS</p>	<p>Power Supplies for AV, ITE, and AVICT Equipment</p>
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PKU4913D*, * represents PI or SI may be followed by a combination of the additional suffixes, see below for each suffix. 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	Power Supplies for AV, ITE, and AVICT Equipment

  
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