

# CERTIFICATE OF COMPLIANCE

**Certificate Number** 20161012-E151252  
**Report Reference** E151252-A130  
**Issue Date** 2016-OCTOBER-12

**Issued to:** MURATA POWER SOLUTIONS INC  
11 CABOT BLVD  
MANSFIELD MA 02048-1137  
UNITED STATES


**This is to certify that representative samples of** Component-Power Supplies for Information Technology Equipment Including Electrical Business Equipment  
See addendum page

Have been investigated by UL in accordance with the Standard(s) indicated on this Certificate.

**Standard(s) for Safety:** UL 60950-1 and CAN/CSA C22.2 No. 60950-1-07, Information Technology Equipment - Safety - Part 1: General Requirements.

**Additional Information:** See the UL Online Certifications Directory at [www.ul.com/database](http://www.ul.com/database) for additional information

Only those products bearing the UL Certification Mark should be considered as being covered by UL's Certification and Follow-Up Service.

The UL Recognized Component Mark generally consists of the manufacturer's identification and catalog number, model number or other product designation as specified under "Marking" for the particular Recognition as published in the appropriate UL Directory. As a supplementary means of identifying products that have been produced under UL's Component Recognition Program, UL's Recognized Component Mark: , may be used in conjunction with the required Recognized Marks. The Recognized Component Mark is required when specified in the UL Directory preceding the recognitions or under "Markings" for the individual recognitions.

Recognized components are incomplete in certain constructional features or restricted in performance capabilities and are intended for use as components of complete equipment submitted for investigation rather than for direct separate installation in the field. The final acceptance of the component is dependent upon its installation and use in complete equipment submitted to UL LLC.

Look for the UL Certification Mark on the product.



Bruce Mahrenholz, Director North American Certification Program

UL LLC

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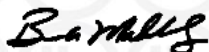
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**Certificate Number** 20161012-E151252  
**Report Reference** E151252-A130  
**Issue Date** 2016-OCTOBER-12

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

DC-DC Converters, Models NMEaabby or CMEaabby or CRE1Saabby

where aa = Input Voltage; bb = Output Voltage and y = is any combination of alphanumeric characters, -, or blank representing non-safety related options.



Bruce Mahrenholz, Director North American Certification Program  
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# CERTIFICATE OF COMPLIANCE

**Certificate Number** 20161026- E151252  
**Report Reference** E151252-A82-UL  
**Issue Date** 2016-OCTOBER-26

**Issued to:** MURATA POWER SOLUTIONS INC  
11 CABOT BLVD, MANSFIELD MA 02048-1137

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

COMPONENT - POWER SUPPLIES, INFORMATION  
TECHNOLOGY EQUIPMENT INCLUDING ELECTRICAL  
BUSINESS EQUIPMENT


“See Addendum page”

Have been investigated by UL in accordance with the  
Standard(s) indicated on this Certificate.

**Standard(s) for Safety:** UL 60950-1 and CAN/CSA C22.2 No. 60950-1-07 -  
Information Technology Equipment - Safety - Part 1:  
General Requirements.


**Additional Information:** See the UL Online Certifications Directory at  
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 may be used in conjunction with the required Recognized Marks. The Recognized Component Mark is  
required when specified in the UL Directory preceding the recognitions or under "Markings" for the individual  
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Recognized components are incomplete in certain constructional features or restricted in performance  
capabilities and are intended for use as components of complete equipment submitted for investigation rather  
than for direct separate installation in the field. The final acceptance of the component is dependent upon its  
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# CERTIFICATE OF COMPLIANCE

**Certificate Number** 20161026- E151252  
**Report Reference** E151252-A82-UL  
**Issue Date** 2016-OCTOBER-26

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

Models/Product:

DC-DC Converter


NKEaabbgy or CRE1Saabbgy or CMEaabbgy, where:

aa=Input Voltage (03=3.3Vdc, 05=5.0Vdc, 12Vdc)

bb=Output Voltage (03=3.3V, 05=5.0V, 09=9.0V, 12=12.0V, 15=15.0V)

gg=2 to 4 letters indicating package style

y=is any combination of alphanumeric characters, - or blank representing non-safety related options



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# CERTIFICATE OF COMPLIANCE

**Certificate Number** 20170215-E151252  
**Report Reference** E151252-A71-UL  
**Issue Date** 2017-FEBRUARY-15

**Issued to:** MURATA POWER SOLUTIONS INC  
11 CABOT BLVD, MANSFIELD MA 02048-1137

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

COMPONENT - POWER SUPPLIES, INFORMATION  
TECHNOLOGY EQUIPMENT INCLUDING ELECTRICAL  
BUSINESS EQUIPMENT


Refer to Addendum page for Models/Product

Have been investigated by UL in accordance with the  
Standard(s) indicated on this Certificate.

**Standard(s) for Safety:** UL 60950-1, 2nd Edition, 2011-12-19 and CAN/CSA C22.2  
No. 60950-1-07 - Information Technology Equipment -  
Safety - Part 1: General Requirements


**Additional Information:** See the UL Online Certifications Directory at  
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**Certificate Number** 20170215-E151252  
**Report Reference** E151252-A71-UL  
**Issue Date** 2017-FEBRUARY-15

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


DC-DC Converters

MTE1Saabby

(where, aa= Input Voltage, bb= Output Voltage and y= may be blank or any alphanumeric characters designating non-safety critical options.)

CRE1Saabby

(where, aa= Input Voltage, bb= Output Voltage and y= may be blank or any alphanumeric characters designating non-safety critical options.)



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