

# CERTIFICATE OF COMPLIANCE

**Certificate Number** 20141022-E343741  
**Report Reference** E343741-20140623  
**Issue Date** 2014-OCTOBER-22

**Issued to:** ENERGY RECOVERY PRODUCTS (ZHUHAI) CO LTD  
NANPING SCIENTIFIC TEC INDUSTRY PARK  
NO 8 PINGDONG RD 2  
ZHUHAI  
GUANGDONG 519060 CHINA

**This is to certify that  
representative samples of** COMPONENT - DRIVERS FOR LIGHT-EMITTING-DIODE  
ARRAYS, MODULES AND CONTROLLERS  
See Addendum

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

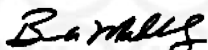
**Standard(s) for Safety:** UL 8750, Light Emitting Diode (LED) Equipment For Use In  
Lighting Products  
CSA C22.2 No. 250.13, Light emitting Diode (LED)  
Equipment for Lighting Applications

**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.

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, Assistant Chief Engineer, Global Inspection and Field Services

UL LLC

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

Series ESM0PPA-XXXX-VV-YYY-ZZZ.

Where "PP" - Denotes output power (Pout) rating code. If  $10W < P_{out} \leq 20W$ , "PP"=20; If  $20W < P_{out} \leq 30W$ , "PP"=30; if  $30W < P_{out} \leq 40W$ , "PP"=40; if  $40W < P_{out} \leq 51W$ , "PP"=50; if  $51W < P_{out} \leq 58.8W$ , "PP"=60.

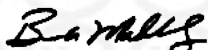
"A" - Denotes input voltage code. If input rated 120Vac, "A"=U; if input rated 120-277Vac, "A"=W; if input rated 277Vac, "A"=V; if input rated 230Vac, "A"=E.

"XXXX" - Denotes regulated output current or could be blank. Regulated output current is not greater than max output regulated current within the output voltage range.

"VV" - Denotes maximum output voltage. It may be "23", "25", "26", "32", "33", "34", "39", "42", "43", "56", or "58".

"YYY" - Denotes customer code for market purpose only, where "Y" represents 0-9, A-Z or blank.

"ZZZ" - Denotes customer code for market purpose only, where "Z" represents 0-9, A-Z or blank.



Bruce Mahrenholz, Assistant Chief Engineer, Global Inspection and Field Services

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