



Product Service

# CERTIFICATE

No. B 12 12 13890 01720

**Holder of Certificate: Astec International Ltd.**16th Floor, Lu Plaza, 2 Wing Yip Street  
Kwun Tong  
Kowloon  
HONG KONG**Certification Mark:****Product:****Switch mode power supplies  
(Switch mode power supply for building-in)**

The product was tested on a voluntary basis and complies with the essential requirements. The certification mark shown above can be affixed on the product. It is not permitted to alter the certification mark in any way. In addition the certification holder must not transfer the certificate to third parties. See also notes overleaf.

**Test report no.:**

686101000203

**Date,** 2012-12-18

(Jimmy Huang)

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**Model(s):** NTS503-M, NTS503-M-CEF, NTS505-M,  
 NTS505-M-CEF, NTS508-M, NTS508-M-CEF

**Brand Name:** EMERSON, ASTEC

**Parameters:**

Rated AC Input :	For models NTS503-M, NTS505-M and NTS508-M: 100-250VAC, 50/60Hz, 7.1A or 120-300VDC, 7.1A For other models: 100-250VAC, 50/60Hz, 7.1A
Rated DC Output :	For models NTS503-M and NTS503-M-CEF: +12V, 41.67A max.; +5Vstby, 2A max.; +12V (Fan_Out), 1A max. For models NTS505-M and NTS505-M-CEF: +24V, 20.84A max.; +5Vstby, 2A max.; +12V (Fan_Out), 1A max. For models NTS508-M and NTS508-M-CEF: +48V, 10.42A max.; +5Vstby, 2A max.; +12V (Fan_Out), 1A max. Maximum continuous output power: 500W with 30CFM forced air cooling or cover fan 200W with natural convection cooling
Construction :	Built-in component
Protection Class :	I
Degree of Protection :	IPX0
Remark:	See page 3 for details.

**Tested according to:** EN 60950-1/A12:2011  
 EN 60601-1:2006

**Production Facility(ies):** 62777, 28532

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**Remark :**

1. When installing these equipments, all requirements of the mentioned standard must be fulfilled.
2. Clearance was evaluated for operating altitude up to 4000m above sea level.
3. Refer to installation and operation instructions for details of operating temperature and loading condition.
4. These power supplies contain output exceeding 240VA, when installing into end system, care must be taken that the output and associated wire(s) may not be touched.
5. Built-in type equipment, suitable enclosure should be provided in end system.
6. These power supplies are designed to be protectively earthed. Earthing connection and continuity test shall be checked in end product.
7. This power supply also evaluated according to EN 60601-1:2006 and IEC 60601-1:2005 with following condition:
  - The output was not evaluated as patient connected circuits.
  - Compliance with the requirements for EMC shall be evaluated for the end use product.
  - This product has been investigated only as a component part for use in equipment where the suitability of the combination is subject to end product investigation.
  - This power supply must be installed in accordance with the instruction manual.
  - Risk management has been considered for the relevant clause in this power supply. When using this power supply for a medical device, compliance with the relevant requirements of the risk management for the complete system has to be considered.
  - The leakage current test shall be checked in end product.
  - Clearance/creepage distance and dielectric strength were evaluated and fulfil the requirements for MOPP.
  - Clearance was evaluated for operating altitude up to 3000m above sea level.