

CERTIFICATE OF CONSTANCY OF PERFORMANCE

Issued by DBI Certification, notified body No. 2531.

In compliance with *Regulation 305/2011/EU of the European Parliament and of the Council of 9 March 2011* (the Construction Products Regulation or CPR), this certificate applies to the construction product

2A Power Supply Model STX2402

The product fulfils the essential characteristic:

See Annex 1

Intended use: Applications related to automatic fire alarm systems

Placed on the market under the name or trade mark of:

**Elmdene International Ltd
3 Keel Close, Interchange Park
Portsmouth, Hampshire, PO3 5QD
United Kingdom**

and produced in the manufacturing plant:

CPA10044

This certificate attests that all provisions concerning the assessment and verification of constancy of performance described in Annex ZA of the standards

EN 54-4:1997/A1:2002/A2:2006 : Fire detection and fire alarm systems - Part 4: Power supply equipment

under system 1 for the performance set out in this certificate are applied and that the performance of the construction product is assessed to remain constant.

The attached annexes form part of this certificate.

Date of issue: 2020-12-18

This certificate will remain valid as long as neither the harmonized standard, the construction product, the AVCP methods nor the manufacturing conditions in the plant are modified significantly unless suspended or withdrawn by the notified product certification body.

This certificate was first issued 2020-12-18.



Merete Poulsen
Responsible for evaluation



Thomas Anthony Wilson
Responsible for certification decision

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DBI Certification A/S

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Annex 1

EXTENT

Product/Device description:

Model STX2402-C 2A Power Supply with model C Enclosure
 Model STX2402-E 2A Power Supply with model E Enclosure

Product information:

Model reference: STX2402
 Type: Power Supply equipment (PSE)
 Description: This product is designed as power supply equipment for automatic fire detection and fire alarm systems installed in buildings

Technical Data:

Supply Voltage: 110-240 V AC (+10% / -15%)
 Output Voltage (Mains): 27.0 – 28.3 V DC (27.6 V nominal)
 Output Voltage (Battery): 21.0 – 26.0 V dc
 I_{max a}: 2.0 A (1.8 A with 17Ah Batteries)
 I_{max b}: 2.5 A
 I_{min}: 0 mA
 R_{i max}: 0.5 Ω
 Battery Capacity: 2.1 Ah with C-Type Enclosure
 7 Ah with C-Type Enclosure
 17 Ah with E-Type Enclosure
 Enclosure Size: C Type: 275 x 330 x 80 mm
 E Type: 400 x 420 x 80 mm

Performance

Essential characteristics	Clauses in EN 54-4:1997	Performance
Performance of power supply	4, 5, 6 a)	Pass
Operational reliability	4, 5, 6, 7, 8 a)	Pass
Durability of operational reliability; temperature resistance	9.5	Pass
Durability of operational reliability; vibration resistance	9.7, 9.8, 9.15	Pass
Durability of operational reliability; electrical stability	9.9 to 9.13	Pass
Durability of operational reliability; humidity resistance	9.6, 9.14	Pass

a) The products covered by this standard are assumed to function during the alarm condition, in an event of fire, before the fire becomes so large as to affect their functioning. There is therefore no requirement to function when exposed to direct attack from fire.

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Annex 2

TEST DOCUMENTATION

Accredited Laboratory	Report no.	Date
UL LLC	NC25138-D1-European Directive-Original 2401/2	2014-10-31

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Annex 3

TECHNICAL BASIS

File Number	Title	Rev.
-	STX2401 and STX2402 Block Diagram – Control, Fault and DC Routing	02A -
-	STX2401 and STX2402 Power Block Diagram	02A -
-	STX2401 and STX2402 Description of Operation	01B -April 2016
-	STX2401 and STX2402 Software Documentation	2016
PAK200583	Model STX2401 Installation Manual	02A
SAS100711	Battery Leads and Thermistor BOM	02A
MEC200674	C Type Enclosure Base	03A
MEC200304	C Type Enclosure Lid	04A
MEC200269	E Type Enclosure Base	22A
MEC200274	E Type Enclosure Lid	10A
PAK200582	Model STX2402 Installation Manual	2B
-	STX2402 PCA Bill of Materials	01C
PCB120700	STX2402 Component layout	02A
-	Model STX2401 and STX2402 PCA Critical Component list	01B
-	Model STX2402-C Bill of Materials	02A
-	Model STX2402-E Bill of Materials	02B
2012-02-15	Model STX2401 and STX2402 PCA Schematic	X4
SCREEN-PSU-STX	Silkscreen Label outside of Cabinet	01B

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