

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

5A Power Supply Model STX2405

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product, the AVCP methods nor the manufacturing conditions in the plant are modified significantly unless suspended or withdrawn by the notified product certification body.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 Antony Wilson
Responsible for certification decision

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DBI Certification A/S

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Annex 1

EXTENT

Product/Device description:

Model STX2405-C 5A Power Supply with model C Enclosure
 Model STX2405-E 5A Power Supply with model E Enclosure

Product information:

Model reference: STX2405
 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}: 5.0 A
 I_{max b}: 5.0 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-D2-European Directive-Original 2405	2014-10-31

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Annex 3

TECHNICAL BASIS

File Number	Title	Rev.
-	STX2405 Block Diagram – Control, Fault and DC Routing	02A
-	STX2405 Power Block Diagram	02A
-	STX2405 Description of Operation	01B -2016
SWC1000031	STX2405 Software Documentation	2016
PAK200581	Model STX2405 Installation Manual	2A
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
	STX2405 PCA Bill of Materials	01A
	STX2405 PCA Daughter Board Bill of Materials	01B
PCB120200	STX2405 PCA Component Layout	02A
PCB120100	STX2405 PCA Daughter Board Component Layout	02B
2014-15-16	STX2405 PCA schematic	02A
CCT120100	STX2405 PCA Daughter Board Schematic	01F
-	STX2405 Critical Component List	01A
-	STX2405-C Bill of Materials	02A
-	STX2405-E Bill of Materials	01C
SCREEN-PSU-STX	Silkscreen Label outside of Cabinet	01B

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