

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

10A Power Supply Model STX2410

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product, the AVCP methods nor the manufacturing conditions in the plant are modified significantly unless suspended or withdrawn by the notified product certification body.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

The certificate shall be reproduced in extenso
– extracts only with written permission from DBI Certification A/S.

DBI Certification A/S

Jernholmen 12, 2650 Hvidovre
Tlf.: 36 34 90 90

E-mail: info@dbicertification.dk
www.dbicertification.dk

Annex 1

EXTENT

Product/Device description:

Model STX2410-E 10A Power Supply with model E Enclosure
 Model STX2410-H 10A Power Supply with model H Enclosure
 Model STX2410-E + Batt-Box-65 10A Power Supply with model E Enclosure + External Batt-box-65 Enclosure

Product information:

Model reference: STX2410
 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/b: 10.0 A with 18Ah Batteries / 8.0A with 38Ah Batteries / 7.2A with 65Ah Batteries
 I_{min}: 0 mA
 R_imax: 0.5 Ω
 Battery Capacity: 18 Ah with E-Type Enclosure
 38 Ah with H-Type Enclosure
 65 Ah with Batt-Box-65 External Enclosure
 Enclosure Size: E Type: 400 x 420 x 80mm
 H Type: 420 x 420 x 180mm
 Batt-Box-65 Type: 450 x 535 x 245mm

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.

The certificate shall be reproduced in extenso
 – extracts only with written permission from DBI Certification A/S.

Annex 2

TEST DOCUMENTATION

Accredited Laboratory	Report no.	Date
UL LLC	NC25138-D3-European Directive-Original 2410	2014-11-24

The certificate shall be reproduced in extenso
– extracts only with written permission from DBI Certification A/S.

Annex 3

TECHNICAL BASIS

File Number	Title	Rev.
-	STX2410-E and Block Diagram – Control, Fault and DC Routing	01A -
-	STX2410-E Power Block Diagram	01A -
-	STX2410 Description of Operation	01B -
-	STX2410 Software Documentation	01C -
PAK200574	STX2410-E, STX2410-H, STX2410-E+BATT BOX-65 Installation Manual	01H
SAS100709	Battery Leads and Thermistor BOM	03A
MEC200262	E Type Enclosure Base	12A
MEC200274	E Type Enclosure Lid	10A
MEC200269	H Type Enclosure Base	22A
MEC200263	H Type Enclosure Lid	10A
120101	STX2410-E Daughter	01B
-	STX2410-H Bill of Materials	01B
120301	STX2410-E PCA Assembly Bill of Materials	01C
-	STX2410-E Bill of Materials	01B
120300	STX2410-E Component layout	09-16-14
-	Model STX2410-E PCA Critical Component list	01A
200708	Model STX2410-E Cover	02A
200707	Model STX2410 Chassis	04B
120300	Model STX2410-E Schematic	03A
MEC200710	2410-H Case Chassis	A2
MEC200709	STX2410 Heat sink	02A
SAS100713	65Ah Battery Case, and link Cable	01A
	BATT BOX-65 BOM	01A

The certificate shall be reproduced in extenso
 – extracts only with written permission from DBI Certification A/S.