



AC 063

**CENTRUM NAUKOWO-BADAWCZE
OCHRONY PRZECIWPOŻAROWEJ**

im. Józefa Tuliszkowskiego

PAŃSTWOWY INSTYTUT BADAWCZY

ul. Nadwiślańska 213, 05-420 Józefów k/Otwocka



CERTIFICATE OF ADMITTANCE

No. 5222/2024

Based on art. 7 paragraph 2 of the Act of 24 August 1991 on fire protection
Centrum Naukowo-Badawcze Ochrony Przeciwpożarowej im. Józefa Tuliszkowskiego
Państwowy Instytut Badawczy at the request of:

PULSAR K. Bogusz Sp. j.

Siedlec 150

32-744 Łapczyca

states that product:

**Power supply for fire alarm systems and smoke and heat control systems,
type EN54C and EN54C-LCD**

manufactured by:

PULSAR K. Bogusz Sp. j.

Siedlec 150

32-744 Łapczyca

in the manufacturing plants:

PULSAR K. Bogusz Sp. j.

Siedlec 150

32-744 Łapczyca

PULSAR K. Bogusz Sp. j.

Targowisko 470

32-015 Kłaj

meets the requirements of:

**p. 12.2 of annex to the Regulation of the Minister of the Interior and
Administration of 20 June 2007 on the list of products used for ensuring public
safety or protecting health, life and property, and the principles of issuing
admittance to use these products (Polish Journal of Laws: Dz. U. nr 143 poz. 1002;
zm.: Dz. U. z 2010 r. nr 85, poz. 553, z 2018 r. poz. 984, z 2022 r. poz. 2282)**

Documentation:

1. Application for the process of product admittance No. 7133/2023 of 02.08.2023.
2. Test reports No. 1490/BA/23 of 07.12.2023 and No. 1143/BA/18 of 07.12.2018 prepared by Zespół Laboratoriów Sygnalizacji Alarmu Pożaru i Automatyki Pożarniczej (BA) CNBOP-PIB.

The certificate of admittance is valid under the condition that the applicant fulfils the requirements defined in the agreement No. 5222/DC/CNBOP-PIB/2024.

Validity period of the admittance:

from **28.11.2025**

until **06.01.2029**

DIRECTOR OF CNBOP-PIB

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Deputy Director for Certification and Admittance
st. bryg. Jacek Zboina, D.Sc. Eng.



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DC/D-21/24.11.2022

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CERTIFICATE OF ADMITTANCE

No. 5222/2024

TECHNICAL DATA IDENTIFYING THE PRODUCT

Power supply for fire alarm systems and smoke and heat control systems, type EN54C and EN54C-LCD

General information		
Product type	EN54C	EN54C-LCD
Varieties	EN54C-2A7(G), EN54C-2A17(G), EN54C-3A7(G), EN54C-3A17(G), EN54C-3A28(G), EN54C-5A7(G), EN54C-5A17(G), EN54C-5A28(G), EN54C-5A40(G), EN54C-5A65(G), EN54C-10A17(G), EN54C-10A28(G), EN54C-10A40(G), EN54C-10A65(G)	EN54C-2A7LCD; EN54C-2A17LCD; EN54C-3A7LCD; EN54C-3A17LCD; EN54C-3A28LCD; EN54C-5A7LCD; EN54C-5A17LCD; EN54C-5A28LCD; EN54C-5A40LCD; EN54C-5A65LCD; EN54C-10A17LCD; EN54C-10A28LCD; EN54C-10A40LCD; EN54C-10A65LCD
Type of power supply	electrical	
Range of operating temperatures	-5°C ÷ +40°C	
IP rating of the enclosure	IP 30	
Identification of the enclosure and minimum and maximum dimensions:	EN54C-2A7(G), EN54C-3A7(G), EN54C-5A7(G): 335 x 308 x 90 [mm] EN54C-2A17(G), EN54C-3A17(G), EN54C-5A17(G), EN54C-10A17(G): 390 x 406 x 96 [mm] EN54C-3A28(G), EN54C-5A28(G), EN54C-5A40(G), EN54C-10A28(G), EN54C-10A40(G): 425 x 411 x 186 [mm] EN54C-10A65(G), EN54C-5A65(G): 416 x 652 x 188 [mm]	EN54C-2A7LCD; EN54C-3A7LCD; EN54C-5A7LCD: 335x308x90 [mm] EN54C-2A17LCD; EN54C-3A17LCD; EN54C-5A17LCD; EN54C-10A17LCD: 390x406x96 [mm] EN54C-3A28LCD; EN54C-5A28LCD; EN54C-5A40LCD; EN54C-10A28LCD; EN54C-10A40LCD: 425x411x186 [mm] EN54C-10A65LCD; EN54C-5A65LCD: 416x652x188 [mm]
Functional class according to EN 12101-10:2005+AC:2007	A	
Environmental class according to EN 12101-10:2005+AC:2007	1	

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st. bryg. Jacek Zboina, D.Sc. Eng.



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TECHNICAL DATA IDENTIFYING THE PRODUCT

Power supply for fire alarm systems and smoke and heat control systems, type EN54C and EN54C-LCD

Dane podstawowe		
Output load current $I_{max a}$	EN 54-4:1997+AC:1999+A1:2002+A2:2006	
	EN54C-2A7(G): 1,6 A, EN54C-2A17(G): 1,2 A EN54C-3A7(G): 2,6 A, EN54C-3A17(G): 2,2 A EN54C-3A28(G): 1,8 A, EN54C-5A7(G): 4,6 A EN54C-5A17(G): 4,2 A, EN54C-5A28(G): 3,8 A EN54C-5A40(G): 3,2 A, EN54C-5A65(G): 2,4 A EN54C-10A17(G): 9,2 A, EN54C-10A28(G): 8,8 A EN54C-10A40(G): 8,2 A, EN54C-10A65(G): 7,4 A	EN54C-2A7-LCD 1,6A; EN54C-2A17-LCD: 1,2 A EN54C-3A7-LCD 2,6A; EN54C-3A17-LCD: 2,2 A EN54C-3A28-LCD 1,8A; EN54C-5A7-LCD: 4,6 A EN54C-5A17-LCD 4,2A; EN54C-5A28-LCD: 3,8 A EN54C-5A40-LCD 3,2A; EN54C-5A65-LCD: 2,4 A EN54C-10A17-LCD 9,2A; EN54C-10A28-LCD: 8,8 A EN54C-10A40-LCD 8,2A; EN54C-10A65-LCD: 7,4 A
Output load current $I_{max b}$	EN 54-4:1997+AC:1999+A1:2002+A2:2006	
	EN54C-2A7(G), EN54C-2A17(G): 2 A EN54C-3A7(G), EN54C-3A17(G), EN54C-3A28(G): 3 A EN54C-5A7(G), EN54C-5A17(G), EN54C-5A28(G), EN54C-5A40(G), EN54C-5A65(G): 5 A EN54C-10A17(G), EN54C-10A28(G), EN54C-10A40(G), EN54C-10A65(G): 10 A	EN54C-2A7-LCD; EN54C-2A17-LCD: 2A EN54C-3A7-LCD; EN54C-3A17-LCD; EN54C-3A28-LCD: 3A EN54C-5A7-LCD; EN54C-5A17-LCD; EN54C-5A28-LCD; EN54C-5A40-LCD; EN54C-5A65-LCD: 5A EN54C-10A17-LCD; EN54C-10A28-LCD; EN54C-10A40-LCD; EN54C-10A65-LCD: 10A
Output load current $I_{max a}$	EN 12101-10:2005+AC:2007	
	EN54C-2A7(G): 0 A, EN54C-2A17(G): 0,182 A EN54C-3A7(G): 0 A, EN54C-3A17(G): 0,182 A EN54C-3A28(G): 0,334 A, EN54C-5A7(G): 0 A EN54C-5A17(G): 0,177 A, EN54C-5A28(G): 0,330 A EN54C-5A40(G): 0,497 A, EN54C-5A65(G): 0,844 A EN54C-10A17(G): 0,144 A, EN54C-10A28(G): 0,296 A EN54C-10A40(G): 0,463 A, EN54C-10A65(G): 0,81 A	EN54C-2A7-LCD: 0 A, EN54C-2A17-LCD: 0,17 A EN54C-3A7-LCD: 0 A, EN54C-3A17-LCD: 0,17 A EN54C-3A28-LCD: 0,322 A, EN54C-5A7-LCD: 0 A EN54C-5A17-LCD: 0,165 A, EN54C-5A28-LCD: 0,318 A EN54C-5A40-LCD: 0,485 A, EN54C-5A65-LCD: 0,832 A EN54C-10A17-LCD: 0,132 A, EN54C-10A28-LCD: 0,284 A EN54C-10A40-LCD: 0,451 A, EN54C-10A65-LCD: 0,798 A
Output load current $I_{max b}$	EN 12101-10:2005+AC:2007	
	EN54C-2A7(G), EN54C-2A17(G): 2 A EN54C-3A7(G), EN54C-3A17(G), EN54C-3A28(G): 3 A EN54C-5A7(G), EN54C-5A17(G), EN54C-5A28(G), EN54C-5A40(G), EN54C-5A65(G): 5 A EN54C-10A17(G), EN54C-10A28(G), EN54C-10A40(G), EN54C-10A65(G): 10 A	EN54C-2A7-LCD; EN54C-2A17-LCD: 2 A EN54C-3A7-LCD; EN54C-3A17-LCD; EN54C-3A28-LCD: 3 A EN54C-5A7-LCD; EN54C-5A17-LCD; EN54C-5A28-LCD; EN54C-5A40-LCD; EN54C-5A65-LCD: 5 A EN54C-10A17-LCD; EN54C-10A28-LCD; EN54C-10A40-LCD; EN54C-10A65-LCD: 10 A
Output circuits: power supply output voltage range	22,0 V $\pm$ 27,6 V DC – buffer mode 20,0 V $\pm$ 27,6 V DC – battery mode	

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TECHNICAL DATA IDENTIFYING THE PRODUCT

Power supply for fire alarm systems and smoke and heat control systems, type EN54C and EN54C-LCD

Primary power supply		
Primary power supply: supply voltage	230 V AC -15% +10%	
Input circuits: number of inputs	1	
Maximum power consumption from the mains	EN54C-2A7(G), EN54C-2A17(G): 0,48 A / 230 V AC EN54C-3A7(G), EN54C-3A17(G), EN54C-3A28(G): 0,72 A / 230 V AC EN54C-5A7(G), EN54C-5A17(G), EN54C-5A28(G), EN54C-5A40(G), EN54C-5A65(G): 1,16 A / 230 V AC EN54C-10A17(G), EN54C-10A28(G), EN54C-10A40(G), EN54C-10A65(G): 1,36 A / 230 V AC	EN54C-2A7-LCD, EN54C-2A17-LCD: 0,48 A / 230 V AC EN54C-3A7-LCD, EN54C-3A17-LCD, EN54C-3A28-LCD: 0,72 A / 230 V AC EN54C-5A7-LCD, EN54C-5A17-LCD, EN54C-5A28-LCD, EN54C-5A40-LCD, EN54C-5A65-LCD: 1,16 A / 230 V AC EN54C-10A17-LCD, EN54C-10A28-LCD, EN54C-10A40-LCD, EN54C-10A65-LCD: 1,36 A / 230 V AC
Backup power supply		
Type of batteries	lead-acid batteries manufactured using gel or AGM technology	
Maximum battery charging current	EN54C-2A7(G), EN54C-3A7(G), EN54C-5A7(G): 0,4 A EN54C-2A17(G), EN54C-3A17(G), EN54C-5A17(G), EN54C-10A17(G): 0,8 A EN54C-3A28(G), EN54C-5A28(G), EN54C-10A28(G): 1,2 A EN54C-5A40(G), EN54C-10A40(G): 1,8 A EN54C-5A65(G), EN54C-10A65(G): 2,6 A	EN54C-2A7-LCD, EN54C-3A7-LCD, EN54C-5A7-LCD: 0,4 A EN54C-2A17-LCD, EN54C-3A17-LCD, EN54C-5A17-LCD, EN54C-10A17-LCD: 0,8 A EN54C-3A28-LCD, EN54C-5A28-LCD, EN54C-10A28-LCD: 1,2 A EN54C-5A40-LCD, EN54C-10A40-LCD: 1,8 A EN54C-5A65-LCD, EN54C-10A65-LCD: 2,6 A
Maximum internal resistance of the battery and components connected to it	300 mΩ	

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Backup power supply		
Maximum battery capacity	EN54C-2A7(G), EN54C-3A7(G), EN54C-5A7(G): 7,2 Ah EN54C-2A17(G), EN54C-3A17(G), EN54C-5A17(G), EN54C-10A17(G): 20 Ah EN54C-3A28(G), EN54C-5A28(G), EN54C-10A28(G): 28 Ah EN54C-5A40(G), EN54C-10A40(G): 45 Ah EN54C-5A65(G), EN54C-10A65(G): 65 Ah	EN54C-2A7-LCD, EN54C-3A7-LCD, EN54C-5A7-LCD: 7,2 Ah EN54C-2A17-LCD, EN54C-3A17-LCD, EN54C-5A17-LCD, EN54C-10A17-LCD: 20 Ah EN54C-3A28-LCD, EN54C-5A28-LCD, EN54C-10A28-LCD: 28 Ah EN54C-5A40-LCD, EN54C-10A40-LCD: 45 Ah EN54C-5A65-LCD, EN54C-10A65-LCD: 65 Ah
Battery charging voltage in buffer mode	27,6 V in temperature of 20°C	
Temperature compensation of voltage in buffer mode	yes	
Power supply components: L-N-PE, TEMP, TAMPER, ALARM, EPS, EXTi, +VAT-, +AUX1-, +AUX2-, FBAT, FAUX1, FAUX2, LEDs, LED panel, battery temperature sensor, battery connectors, LCD display connector (for EN54C-LCD type), communication interface connector (for EN54C-LCD type), INTE-C, INTR-C, INTRE-C, EN54C-LB4, EN54C-LB8, EN54C-LS4, EN54C-LS8.		

Characteristics of power supply functions in smoke and heat control systems

1. Electrical power supply

- | | |
|--|----------------|
| a) power supply from the primary power source (electrical) – according to 6.1 EN 12101-10:2005+AC:2007 | yes |
| b) power supply from a backup power source (battery) – according to 6.2 EN 12101-10:2005+AC:2007 | yes |
| c) power supply from a backup power source (generators) – according to 6.3 EN 12101-10:2005+AC:2007 | not applicable |
| d) detection and signalling of failures (electrical) – according to 6.4 EN 12101-10:2005+AC:2007 | yes* |

* Applies to points a ÷ d in accordance with section 6.4 of EN 12101-10:2005+AC:2007

ADDITIONAL TERMS AND COMMENTS:

According to § 17 of the Regulation of the Minister of the Interior and Administration of 20 June 2007 on the list of products used for ensuring public safety or protecting health, life and property, and the principles of issuing admittance to use these products (Polish Journal of Laws: Dz. U. nr 143 poz. 1002; zm.: Dz. U. z 2010 r. nr 85, poz. 553, z 2018 r. poz. 984, z 2022 r. poz. 2282) a product should be marked with the marking of the admittance body and also the number of the certificate of admittance.

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