



Łukasiewicz – IMiF
PREDOM Division
 Krakowiaków 53, 02-255 WARSAW
 POLAND

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LICENCE / CERTIFICATE

to use the ENEC+ Mark

LICENCJA / CERTYFIKAT

na używanie ZNAKU ENEC+



Licence / Certificate No.

Licencja / Certyfikat Nr

0126/ENEC+/24

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Name and address of the

Certificate owner:

Nazwa i adres posiadacza certyfikatu:

F.P.H. Art-Metal Sp.J.

83-331 Łapino Kartuskie, ul. Jabłoniowa 124, Poland

For the products:

Dla wyrobów:

Luminaires for road and street lighting

Oprawy oświetleniowe drogowe i uliczne

Trade name:

Znak towarowy:



art metal

Type(s)/Model(s):

Typ(y), model(e):

Art Metal – family

(details in the Appendix / Szczegóły w Załączniku)

Complying with the following European Standards:

Zgodnymi z następującymi normami europejskimi:

ENPR 003:2018-05 based on/ opartym na EN 62722-2-1:2016

Test report(s):

Raporty z badań:

Ref. No: B5-3/151/B/24 dated 14.10.2024 performed by the Testing Laboratory Łukasiewicz-IMiF PREDOM Division (Accreditation PCA AB 003)

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0376/ENEC/24 dated / z dnia 2024-10-14

Issued by / wydany przez: Łukasiewicz – IMiF PREDOM Division

Date:

2024-10-15

Data:


Manager of Certification Office
 Kierownik Biura Certyfikacji

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Additional information – see the Appendix. Dodatkowe informacje – patrz Załącznik.

APPENDIX TO THE LICENCE No. 0126/ENEC+/24
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Name and address of the license holder:	F.P.H. Art-Metal Sp.J. 83-331 Łapino Kartuskie, ul. Jabłoniowa 124, Poland
Name and address of manufacturer:	F.P.H. Art-Metal Sp.J. 83-331 Łapino Kartuskie, ul. Jabłoniowa 124, Poland
Name and address of manufacturing place:	F.P.H. Art-Metal Sp.J. 83-331 Łapino Kartuskie, ul. Jabłoniowa 124, Poland
Name of product:	Art Metal – family
Trade mark :	 art metal
Technical data:	
Rated voltage	220-240V
Rated frequency:	50/60Hz
Protection against electric shock:	Class I
Degree of protection:	IP66
ta:	ta=35°C
Input Power (W):	01 VERA – series – from 25W to 61W 02 LUNA – series – from 25W to 61W 03 LIBRA – series – from 25W to 61W 04 ARIES – series – from 25W to 61W 06 ANDROMEDA – series – from 36W to 92W 10 OPAL – series – from 25W to 61W 15 NEPTUN – series – from 25W to 61W 18 JOWISZ – series – from 25W to 61W 19 LUMINA – series – from 25W to 61W 22 SATURN – series – from 25W to 61W 23 ANTARES – series – from 36W to 92W 24 NEXUS – series – from 36W to 92W 25 MEGALIA – series – from 36W to 92W 29 TECHNO – series – from 25W to 97W 33 VICTORIA – series – from 25W to 61W 34 ROZALIA – series – from 25W to 61W 38 JUPITER – series – from 25W to 61W 42 FIONA – series – from 25W to 61W 46 KUNGSLYKTA – series – from 25W to 61W
Luminous Flux (lm):	01 VERA – series – from 2641lm to 7051lm 02 LUNA – series – from 2641lm to 7051lm 03 LIBRA – series – from 2641lm to 7051lm 04 ARIES – series – from 2641lm to 7051lm 06 ANDROMEDA – series – from 4403lm to 11751lm 10 OPAL – series – from 2641lm to 7051lm 15 NEPTUN – series – from 2641lm to 7051lm 18 JOWISZ – series – from 2641lm to 7051lm 19 LUMINA – series – from 2641lm to 7051lm 22 SATURN – series – from 2641lm to 7051lm 23 ANTARES – series – from 4403lm to 11751lm 24 NEXUS – series – from 4403lm to 11751lm 25 MEGALIA – series – from 4403lm to 11751lm 29 TECHNO – series – from 2641lm to 12512lm 33 VICTORIA – series – from 2641lm to 7051lm 34 ROZALIA – series – from 2641lm to 7051lm 38 JUPITER – series – from 2641lm to 7051lm 42 FIONA – series – from 2641lm to 7051lm 46 KUNGSLYKTA – series – from 2641lm to 7051lm
Colour temperature (CCT):	2700K, 3000K, 4000K
Colour rendering index (CRI):	CRI>80
Efficacy (lm/W):	01 VERA – series – from 104lm/W to 120lm/W 02 LUNA – series – from 104lm/W to 120lm/W 03 LIBRA – series – from 104lm/W to 120lm/W 04 ARIES – series – from 104lm/W to 120lm/W 06 ANDROMEDA – series – from 115lm/W to 141lm/W 10 OPAL – series – from 104lm/W to 120lm/W 15 NEPTUN – series – from 104lm/W to 120lm/W 18 JOWISZ – series – from 104lm/W to 120lm/W 19 LUMINA – series – from 104lm/W to 144lm/W 22 SATURN – series – from 104lm/W to 120lm/W 23 ANTARES – series – from 101lm/W to 144lm/W 24 NEXUS – series – from 115lm/W to 141lm/W 25 MEGALIA – series – from 115lm/W to 141lm/W 29 TECHNO – series – from 104lm/W to 141lm/W 33 VICTORIA – series – from 104lm/W to 120lm/W 34 ROZALIA – series – from 104lm/W to 120lm/W 38 JUPITER – series – from 104lm/W to 120lm/W 42 FIONA – series – from 104lm/W to 120lm/W 46 KUNGSLYKTA – series – from 104lm/W to 120lm/W

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Lamp Type/Rating:	Fortimo FastFlex 2x6/827 DA G5 Fortimo FastFlex 2x6/830 DA G5 Fortimo FastFlex 2x6/840 DA G5
Luminaire (Type A, B, C):	Type A - Luminaires using LED modules where compliance with EN 62717 has been proven
Ambient Temperature Rating (tq):	25°C
Temperature Rating (ta):	35°C

Choice sheet of the luminaires Art Metal – family:

Marking example:

04	A	L2	25W	840	VSM	P	3267lm	300mA
1	2	3	4	5	6	7	8	9

1. The Number of the Luminary = The Name of the Luminary. (Each luminary corresponds with the number for its identification.)

01	VERA	23	ANTARES
02	LUNA	24	NEXUS
03	LIBRA	25	MEGALIA
04	ARIES	29	TECHNO
06	ANDROMEDA	33	VICTORIA
10	OPAL	34	ROZALIA
15	NEPTUN	38	JUPITER
18	JOWISZ	42	FIONA
19	LUMINA	46	KUNGSLYKTA
22	SATURN		

2. Mounting version of the luminary: A, B, C, D, E, F, G or “space” if is only one version “03,04,37,46”) - see catalogue cards of luminaire mounting.

3. Type of light element:

L1 - Philips	12xLED
L2 - Philips	24xLED
L3 - Philips	36xLED

4. Power : 25W – 97W

5. Light colour code:

827	light colour 2700K (Philips)	CRI 80
830	light colour 3000K (Philips)	CRI 80
840	light colour 4000K (Philips)	CRI 80

6. Type of lens: ME, VSM, T3, PX, PXL, DWC2, GT, for Philips LED modules.

7. Type of Switching Power Supplies:

P	Programmable
SR	Sensor ready – (applicable with Zhaga connection).
S	Standard
D	Dimmable (0-10V)

8. Luminous flux: 2641 - 12512lm

9. Current on Switching Power Supplies output: 300-800mA

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List of components:

Object / part No.	Code	Manufacturer/ trademark	Type / model	Technical data	Standard	Mark(s) of conformity ¹⁾
LED module	A	Philips Lighting Holding B.V.	Fortimo FastFlex 2x6/827 DA G5	If max=1,5A Tj max=95C	EN 62031	ENEC
LED module	A	Philips Lighting Holding B.V.	Fortimo FastFlex 2x6/830 DA G5	If max=1,5A Tj max=95C	EN 62031	ENEC
LED module	A	Philips Lighting Holding B.V.	Fortimo FastFlex 2x6/840 DA G5	If max=1,5A Tj max=95C	EN 62031	ENEC
Switching Power Supplies	A	Philips Lighting Holding B.V.	Xi FP 40W 0.3-1.0A SNLDAE 230V C133 sXt	Pn =40W Iout=1000mA Un = 220-240V AC Tc =80C	EN 61347-2-13	ENEC
Switching Power Supplies	A	Philips Lighting Holding B.V.	Xi FP 40W 0.3-1.0A SNLDAE 230V S175 sXt	Pn =40W Iout=1000mA Un = 220-240V AC Tc =80C	EN 61347-2-13	ENEC
Switching Power Supplies	A	Philips Lighting Holding B.V.	Xi LP 40W 0.3-0.7A S1 230V C123 sXt	Pn =40W Iout=1000mA Un = 220-240V AC Tc =80C	EN 61347-2-13	ENEC
Switching Power Supplies	A	Philips Lighting Holding B.V.	Xi LP 75W 0.3-1.0A S1 230V C133 sXt	Pn =75W Iout=1000mA Un = 220-240V AC Tc =80C	EN 61347-2-13	ENEC
Switching Power Supplies	A	Philips Lighting Holding B.V.	Xi LP 110W 0.3-1.0A S1 230V C133 sXt	Pn =110W Iout=1000mA Un = 220-240V AC Tc =80C	EN 61347-2-13	ENEC
Switching Power Supplies	A	Philips Lighting Holding B.V.	Xi FP 75W 0.3-1.0A SNLDAE 230V C133 sXt	Pn =75W Iout=1000mA Un = 220-240V AC Tc =80C	EN 61347-2-13	ENEC
Switching Power Supplies	A	Philips Lighting Holding B.V.	Xi FP 110W 0.3-1.0A SNLDAE 230V C133 sXt	Pn =110W Iout=1000mA Un = 220-240V AC Tc =80C	EN 61347-2-13	ENEC
Switching Power Supplies	A	Philips Lighting Holding B.V.	Xi SR 40W 0.2-1.0A SNEMP 230V C123 sXt	Pn =40W Iout=1000mA Un = 220-240V AC Tc =80C	EN 61347-2-13	ENEC
Switching Power Supplies	A	Philips Lighting Holding B.V.	Xi SR 75W 0.2-1.0A SNEMP 230V C150 sXt	Pn =75W Iout=1000mA Un = 220-240V AC Tc =80C	EN 61347-2-13	ENEC
Switching Power Supplies	A	Philips Lighting Holding B.V.	Xi SR 110W 0.2-1.0A SNEMP 230V C150 sXt	Pn =110W Iout=1000mA Un = 220-240V AC Tc =80C	EN 61347-2-13	ENEC
Switching Power Supplies	A	MEAN WELL Enterprises Co., Ltd.	LPF 25-42	Pn =25W Iout=600mA Un = 90-305V AC Tc =70C	EN 61347-2-13	<u>ENEC</u>
Switching Power Supplies	A	MEAN WELL Enterprises Co., Ltd.	LPF 25D-42	Pn =25W Iout=600mA Un = 90-305V AC Tc =70C	EN 61347-2-13	<u>ENEC</u>
Switching Power Supplies	A	MEAN WELL Enterprises Co., Ltd.	LPF 40-48	Pn =40W Iout=840mA Un = 90-305V AC Tc =70C	EN 61347-2-13	<u>ENEC</u>
Switching Power Supplies	A	MEAN WELL Enterprises Co., Ltd.	LPF 40D-48	Pn =40W Iout=840mA Un = 90-305V AC Tc =70C	EN 61347-2-13	<u>ENEC</u>
Switching Power Supplies	A	MEAN WELL Enterprises Co., Ltd.	LPF 40-42	Pn =40W Iout=960mA Un = 90-305V AC Tc =70C	EN 61347-2-13	<u>ENEC</u>

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Object / part No.	Code	Manufacturer/ trademark	Type / model	Technical data	Standard	Mark(s) of conformity ¹⁾
Switching Power Supplies	A	MEAN WELL Enterprises Co., Ltd.	LPF 40D-42	Pn =40W Iout=960mA Un = 90-305V AC Tc =70C	EN 61347-2-13	<u>ENEC</u>
Switching Power Supplies	A	MEAN WELL Enterprises Co., Ltd.	LPF 60-48	Pn =60W Iout=1250mA Un = 90-305V AC Tc =70C	EN 61347-2-13	<u>ENEC</u>
Switching Power Supplies	A	MEAN WELL Enterprises Co., Ltd.	LPF 60D-48	Pn =60W Iout=1250mA Un = 90-305V AC Tc =70C	EN 61347-2-13	<u>ENEC</u>
Switching Power Supplies	A	MEAN WELL Enterprises Co., Ltd.	LPF 60-42	Pn =60W Iout=1430mA Un = 90-305V AC Tc =70C	EN 61347-2-13	<u>ENEC</u>
Switching Power Supplies	A	MEAN WELL Enterprises Co., Ltd.	LPF 60D-42	Pn =60W Iout=1430mA Un = 90-305V AC Tc =70C	EN 61347-2-13	<u>ENEC</u>
Switching Power Supplies	B	MEAN WELL Enterprises Co., Ltd.	LPF 90-48	Pn =90W Iout=1880mA Un = 90-305V AC Tc =70C	EN 61347-2-13	TUV
Switching Power Supplies	B	MEAN WELL Enterprises Co., Ltd.	LPF 90D-48	Pn =90W Iout=1880mA Un = 90-305V AC Tc =70C	EN 61347-2-13	TUV
Switching Power Supplies	A	MEAN WELL Enterprises Co., Ltd.	ELG-100 42D2	Pn =100W Iout=2280mA Un = 90-305V AC Tc =90C	EN 61347-2-13	ENEC
Switching Power Supplies	A	Philips Lighting Holding B.V.	Xi FP 75W 0.3-1.5A SNLDAE 230V C133 sXt	Pn =75W Iout=1500mA Un = 220-240V AC Tc =80C	EN 61347-2-13	ENEC
Switching Power Supplies	A	Inventronics	EBS-080S150BT2	Pn =80W Iout=1500mA Un = 220-240V AC Tc =75°C	EN 61347-2-13	ENEC
Connector System (ZHAGA)	B	ETE Connectivity	2213858-1	Un =250V In =5A	IEC 61984	CB
Screwless Connectors	A	Electro Terminal GmbH & Co KG	SLK-3	Un =450V In=24A Tc =110C	EN 60998-2-2	ENEC
Screwless Connectors	B	Dongguan Longsan Plastic Standard Parts Manufacturing Co., Ltd.	M29-MINI	Un =250V In =16A Tc=110C	EN 60998-2-2	TUV
Surge protecting device (SPD)	B	Inventronics	PU-10KS05KBTA	10kV 5kA Tmax 85C	EN 61643-11	TUV
Wires	B	Elektrokabel	YDY 3x1,5mm ² 450/750V	Un =450/750V S=3x1,5 mm ² Tc =70C	EN 50525-2-31	BJB SEP
Wires	B	Elpar Sp. Z o.o.	YDY 3x1,5mm ² 450/750V	Un =450/750V S=3x1,5 mm ² Tc =70C	EN 50525-2-31	BJB SEP
Wires	B	Tele-fonika Kable S.A.	YDY 3x1,5mm ² 450/750V	Un =450/750V S=3x1,5 mm ² Tc =70C	EN 50525-2-31	BJB SEP
Wires	B	Elektrokabel	OMY 2x1mm ² 300/500V (H03VV-F)	Un =300/500V S=2x1,0 mm ² Tc =70C	EN 50525-2-31	BJB SEP
Wires	B	Elektrokabel	LgY 1x2,5mm ² (H07V-K)	Un =300/500V S=1x2,5 mm ² Tc =70C	EN 50525-2-31	BJB SEP
Wires	B	Elektrokabel	OMYp 2x0,75mm ² 300/500V (H03VVH2-F)	Un =300/500V S=2x1,0 mm ² Tc =70C	EN 50525-2-31	BJB SEP

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Object / part No.	Code	Manufacturer/ trademark	Type / model	Technical data	Standard	Mark(s) of conformity ¹⁾
Wires	B	NKT S.A.	YDY 3x1,5mm ² 450/750V	Un =450/750V S=3x1,5 mm ² Tc =70C	EN 50525-2-31	BJB SEP
Wires	B	ELPAR	H05RR-F	300/500V 2x0,75mm ²	EN 50525-2-31	EMAG
Wires	B	Lapp kable	FlexiVolt-2V, Flexivolt@ 60.7027	1x0,5mm ² double insulation	EN 50525-2-31	VDE

Supplementary information:

¹⁾ Provided evidence ensures the agreed level of compliance. See OD-CB2039.

The codes above have the following meaning:

- A - The component is replaceable with another one, also certified, with equivalent characteristics
- B - The component is replaceable if authorised by the test house
- C - Integrated component tested together with the appliance
- D - Alternative component

Date: Data: 2024-10-15

Signature:

 Manager of Certification Office
Kierownik Biura Certyfikacji