



INTERNATIONAL QUALITY CENTER

CERTIFICATE OF CONFORMITY UYGUNLUK SERTİFİKASI

No: 21INS006

to the Manufacturer: aşağıdaki Üretici için:

GRUP İMAJ AYDINLATMA SANAYİ VE TİCARET A.Ş.

KAVAKLI MAHALLESİ DENİZ AKTAŞ CADDESİ NO: 6

BEYLİKDÜZÜ – İSTANBUL - TÜRKİYE

Product and designation of type: Ürün ve belirtilen tipleri:

BALLASTS FOR HIGH PRESSURE LAMPS (İMAJ branded)

YÜKSEK BASINÇLI LAMBA BALASTLARI (İMAJ markalı)

Types & Series: Tipler & Seriler:

SV MODELİ YÜKSEK BASINÇLI SODYUM BUHARLI LAMBALARLA KULLANILAN BALASTLAR

MH MODELİ YÜKSEK BASINÇLI METAL HALİDE LAMBALARLA KULLANILAN BALASTLAR

HG MODELİ YÜKSEK BASINÇLI CIVA BUHARLI LAMBALARLA KULLANILAN BALASTLAR

The sample tested is covered by the following EU-directives: Test edilen numune, aşağıdaki yönetmelikler kapsamındadır:

2014/35/EU Low Voltage Directive

Belirli Gerilim Sınırları İçin Tasarlanan Elektrikli Ekipman İle İlgili Yönetmelik 2014/35/AB

Observing all EU-Directives relevant for the product, the CE-mark can be labelled

Bugün için geçerli olan ürüne ait yönetmelikler esas alındığında, ürünler üzerinde CE işareti kullanılabilir

CE

Issue Date/ Yayın Tarihi: 03.03.2021

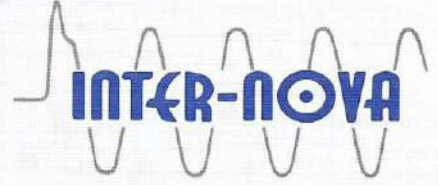
Expiry Date/ Bitiş Tarihi: 02.03.2022

Metin ŞİMSİT



**AKADEMİ
BELGELENDİRME**





INTERNATIONAL QUALITY CENTER

CERTIFICATE OF CONFORMITY

UYGUNLUK SERTİFİKASI

No: 21INS009

to the Manufacturer: aşağıdaki Üretici için:

GRUP İMAJ AYDINLATMA SANAYİ VE TİCARET A.Ş.
KAVAKLI MAHALLESİ DENİZ AKTAŞ CADDESİ NO: 6
BEYLİKDÜZÜ – İSTANBUL - TÜRKİYE

Product and designation of type: Ürün ve belirtilen tipleri:

STARTING DEVICES (IGNITORS) (İMAJ branded)

YOLVERME CİHAZLARI (ATEŞLEYİCİLER) (İMAJ markalı)

Types & Series: Tipler & Seriler:

IM03 Serisi 35-70 W Zaman Ayarı Olmayan Ateşleyiciler (Ignitors Without Timer)
IM03 T Serisi 35-70 W 5-10-15-20 Dakika Zaman Ayarlı Ateşleyiciler (Ignitors With Timer)
IM04 Serisi 100-400 W Zaman Ayarı Olmayan Ateşleyiciler (Ignitors Without Timer)
IM04 T Serisi 100-400 W 5-10-15-20 Dakika Zaman Ayarlı Ateşleyiciler (Ignitors With Timer)
IM04 Serisi 35-400 W Zaman Ayarı Olmayan Ateşleyiciler (Ignitors Without Timer)
IM04 T Serisi 35-400 W 5-10-15-20 Dakika Zaman Ayarlı Ateşleyiciler (Ignitors With Timer)

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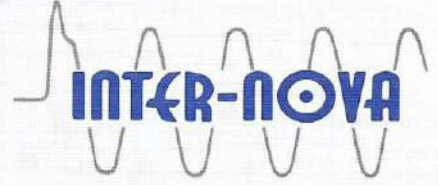
Issue Date/ Yayın Tarihi: 12.04.2021
Expiry Date/ Bitiş Tarihi: 11.04.2022



AKADEMİ
BELGELENDİRME

Metin ŞİMŞİT





INTERNATIONAL QUALITY CENTER

CERTIFICATE OF CONFORMITY

UYGUNLUK SERTİFİKASI

No: 21INS009

to the Manufacturer: aşağıdaki Üretici için:

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KAVAKLI MAHALLESİ DENİZ AKTAŞ CADDESİ NO: 6
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CE

Issue Date/ Yayın Tarihi: 12.04.2021
Expiry Date/ Bitiş Tarihi: 11.04.2022



AKADEMİ
BELGELENDİRME

Metin ŞİMŞİT



№ 234370

CERTIFICATE

No. 902573



This is to certify the Quality Management System of

GRUP IMAJ AYDINLATMA SANAYI VE TICARET A.S.
KAVAKLI MAHALLESİ DENİZ AKTAS CADDESİ NO: 6 BEYLİKDUZU
İSTANBUL
TURKEY

has been assessed and found to be in compliance with the Standard

ISO 9001:2015

applicable to

DESIGN AND PRODUCTION OF FLUORESCENT LAMPS BALLASTS, HIGH PRESSURE LAMPS BALLASTS, ELECTRONIC BALLASTS AND DRIVERS, IGNITORS, INTERNAL AND EXTERNAL LUMINAIRES, LED INTERNAL AND EXTERNAL LUMINAIRES AND FLOODLIGHTS, LIGHTING POLES, LIGHTING AUTOMATION, LOW & HIGH VOLTAGE DISTRIBUTION BOXES, HIGH PRESSURE LAMPS, SAFETY AND ISOLATION TRANSFORMERS, MEDIUM VOLTAGE FUSES.

The certificate has been issued under No. 902573 (version 2) for the registration period from 02 February 2022 to 01 February 2023.
The first certificate date of issue is 02 February 2015.

Approved by

Printed by



S 3137



validity code **0A914D1B-466**

Check the validity of this certificate using this code at www.ll-c.info

№ 204372

CERTIFICATE

No. 902573



This is to certify the Environmental Management System of

GRUP IMAJ AYDINLATMA SANAYI VE TICARET A.S.
KAVAKLI MAHALLESİ DENİZ AKTAS CADDESİ NO: 6 BEYLİKDUZU
ISTANBUL
TURKEY

has been assessed and found to be in compliance with the Standard

ISO 14001:2015

applicable to

DESIGN AND PRODUCTION OF FLUORESCENT LAMPS BALLASTS, HIGH PRESSURE LAMPS BALLASTS, ELECTRONIC BALLASTS AND DRIVERS, IGNITORS, INTERNAL AND EXTERNAL LUMINAIRES, LED INTERNAL AND EXTERNAL LUMINAIRES AND FLOODLIGHTS, LIGHTING POLES, LIGHTING AUTOMATION, LOW & HIGH VOLTAGE DISTRIBUTION BOXES, HIGH PRESSURE LAMPS, SAFETY AND ISOLATION TRANSFORMERS, MEDIUM VOLTAGE FUSES.

The certificate has been issued under No. 902573 (version 2) for the registration period from 02 February 2022 to 01 February 2023.
The first certificate date of issue is 02 February 2015.

Approved by

Printed by



S 3137



validity code **93815239-88E**

Check the validity of this certificate using this code at www.ll-c.info

№ 234374

CERTIFICATE

No. 902573



This is to certify the Occupational Health and Safety Management System of

GRUP IMAJ AYDINLATMA SANAYI VE TICARET A.S.
KAVAKLI MAHALLESİ DENİZ AKTAS CADDESİ NO: 6 BEYLİKDUZU
ISTANBUL
TURKEY

has been assessed and found to be in compliance with the Standard

ISO 45001:2018

applicable to

DESIGN AND PRODUCTION OF FLUORESCENT LAMPS BALLASTS, HIGH PRESSURE LAMPS BALLASTS, ELECTRONIC BALLASTS AND DRIVERS, IGNITORS, INTERNAL AND EXTERNAL LUMINAIRES, LED INTERNAL AND EXTERNAL LUMINAIRES AND FLOODLIGHTS, LIGHTING POLES, LIGHTING AUTOMATION, LOW & HIGH VOLTAGE DISTRIBUTION BOXES, HIGH PRESSURE LAMPS, SAFETY AND ISOLATION TRANSFORMERS, MEDIUM VOLTAGE FUSES.

The certificate has been issued under No. 902573 (version 2) for the registration period from 02 February 2022 to 01 February 2023.
The first certificate date of issue is 02 February 2015.

Approved by

Printed by



S 3137



validity code **2C22B7FC-156**

Check the validity of this certificate using this code at www.ll-c.info

SV100 - 100

[Return](#)

Specifications

Lamp Power (W)	100 W
Lamp Type	HPS
Nominal Voltage (V)	220 - 230 V / 50 Hz
Current (A)	1,15 - 1,20 A
Cos Φ	0,44
Loading Capacitance	14 μ F
IEC Protection Class	Class I
Thermal Protection	Yes
Operating Temperature (Ta)	70 °C
Dimensions and Weight	126 x 100 x 55 mm / 1,659 kg
Terminal Blocks	1,5 - 2,5 mm ²
Box Quantity	16 Pieces



Description

Standart HPS Ballast

Complied Standards:

TS EN 60923

TS EN 61347

Applications

- High Pressure Sodium Vapour Lamps

SV150 - 150

[Return](#)

Specifications

Lamp Power (W)	150 W
Lamp Type	HPS
Nominal Voltage (V)	220 - 230 V / 50 Hz
Current (A)	1,80 A
Cos Φ	0,43
Loading Capacitance	20 μ F
IEC Protection Class	Class I
Thermal Protection	Yes
Operating Temperature (Ta)	70 °C
Dimensions and Weight	144 x 119 x 75 mm / 2,154 kg
Terminal Blocks	1,5 - 2,5 mm ²
Box Quantity	12 Pieces



Description

Standart HPS Ballast

Complied Standards:

TS EN 60923

TS EN 61347

Applications

- High Pressure Sodium Vapour Lamps

SV400 - 400

[Return](#)

Specifications

Lamp Power (W)	400 W
Lamp Type	HPS
Nominal Voltage (V)	220 - 230 V / 50 Hz
Current (A)	4,60 A
Cos Φ	0,43
Loading Capacitance	45 uF
IEC Protection Class	Class I
Thermal Protection	Yes
Operating Temperature (Ta)	80 °C
Dimensions and Weight	160 x 142 x 85 mm / 5,041 kg
Terminal Blocks	1,5 - 2,5 mm ²
Box Quantity	4 Pieces



Description

Standart HPS Ballast

Complied Standards:

TS EN 60923

TS EN 61347

Applications

- High Pressure Sodium Vapour Lamps

SV250 - 250

[Return](#)

Specifications

Lamp Power (W)	250 W
Lamp Type	HPS
Nominal Voltage (V)	220 - 230 V / 50 Hz
Current (A)	3,00 A
Cos Φ	0,42
Loading Capacitance	32 uF
IEC Protection Class	Class I
Thermal Protection	Yes
Operating Temperature (Ta)	70 °C
Dimensions and Weight	127 x 110 x 51 mm / 3,253 kg
Terminal Blocks	1,5 - 2,5 mm ²
Box Quantity	4 Pieces



Description

Standart HPS Ballast

Complied Standards:

TS EN 60923

TS EN 61347

Applications

- High Pressure Sodium Vapour Lamps

Our products are warranted for 2 (two) years period against the manufacturing, material, labor defects providing that there is no misuse and interference for repairment and/or other reasons by people who are not qualified in electrical issues.

- 1. Damages and failures due to user errors.*
- 2. Damages and failures caused during loading, discharge and transportation after delivered to the consumer.*
- 3. Damages and failures due to under voltage or high voltage, no grounding, faulty electrical installations made by unauthorized bodies/people and using the product at a different voltage than the voltage written on the label*
- 4. Damages and failures due to fire and stroke of lightning.*
- 5. Interfering in faulty piece or product, exposing to destructive synthetic materials, accident, negligence, usage by unqualified people and other usage faults; the damages on exterior surface are not*

COVERED BY THE GUARANTEE

Manufacturing Company

Corporate Name: GRUP İMAJ AYDINLATMA SAN.VE TİC. A.Ş.

Address: DENİZ AKTAŞ CAD.NO:6 KAVAKLI/BEYLİKDÜZÜ – İSTANBUL

TEL : +90(212) 689 93 10

FAX: +90(212) 689 93 11

E-mail: info@grupimaj.com

Website: www.grupimaj.com

Signature/ Stamp of Company Executive

About Product

Type :

Brand :

Model :

Bandero1 and Serial No:

Delivery date and place:

Guarantee Period: 2 (two) Years

About Vendor

Corporate Name:

Address :

Tel :

Fax :

Invoice date:

Date/Signature/Stamp:

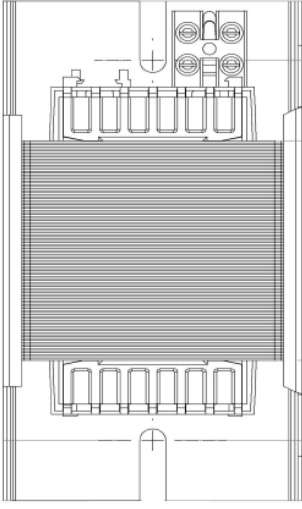
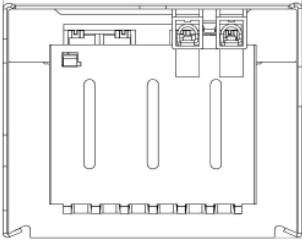
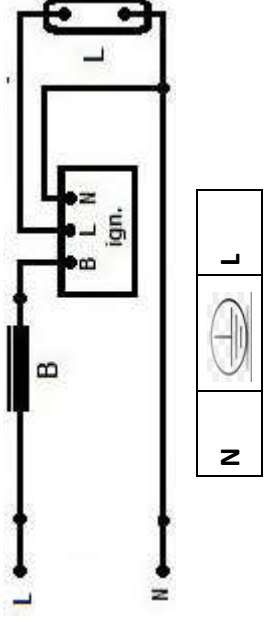


GRUP İMAJ

BALAST MANUAL

50W-100W-150W-250W-400W





Technical Features

Ballast cover resistant to high temperature

Click-fit electric terminals and montage cable option from 0.55 to 15 mm²

220-230 Volt Option

Montage and Technical Connection

- 1- The bottom plate in the ballast equipment section is disassembled and installed with a stainless cross-head screw and philips head screwdriver.
- 2- Ballast is installed to metal bottom in terms of the security of maintenance and repair.
- 3- Terminals on the ballast end are mounted to connectors in order to install the cables.
- 4- 1.5mm² single core cables are mounted to the tip of the electric terminals with a flathead screwdriver after electric terminals mounted to ballast terminals.
- 5- Igniter, socket, capacitor are mounted by means of cables, respectively after the montage of ballast.
- 6- For excellent operation of the terminals, the cable isolation layer must be opened by 8mm.



Montage Connection Diagram

IGNITOR

IM03-IM03T-IM04-IM04T

Sodium and Metal Halide Lamp Ignitor

Standards

EN 60927

EN 61347-2-1



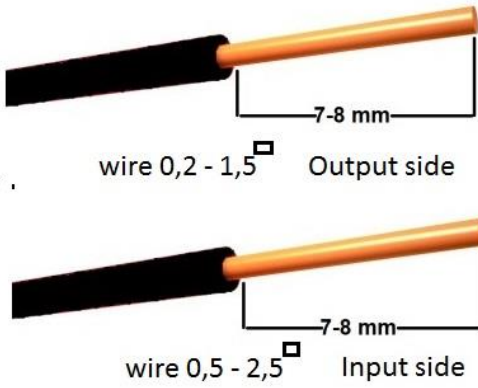
	<i>IM03</i>	<i>IM03 T</i>	<i>IM04</i>	<i>IM04 T</i>	<i>IM04 T</i>
MODEL	35-70 W	35-70 W	100-400 W	100-400 W	35-400 W
Fixture Standards	EN 61347-2-1 EN 60927	EN 61347-2-1 EN 60927	EN 61347-2-1 EN 60927	EN 61347-2-1 EN 60927	EN 61347-2-1 EN 60927
Type	No timing	Timing	No timing	Timing	Timing
Time setting	No timing	5,10,15.20 sec	No timing	5,10,15.20 sec	5,10,15.20 sec
Declaration and marking	ENEC/TSE / CE	ENEC/TSE / CE	ENEC/TSE / CE	ENEC/TSE / CE	ENEC/TSE / CE
Mains Frequency	50-60 Hz	50-60 Hz	50-60 Hz	50-60 Hz	50-60 Hz
Ignition voltage	1,8-2,4 Kv	1,8-2,4 Kv	3-4,5Kv	3-4,5Kv	3-4,5Kv
Max. Permissible lamp current	3 A	3 A	5 A	5 A	5 A
Max. Lamp distance to ignition	1,5 m	1,5 m	1,5 m	1,5 m	1,5 m
Load capacity	20.....150 pF	20.....150 pF	20.....150 pF	20.....150 pF	20.....150 pF
Wire cross section	max 2,50 mm²	max 2,50 mm²	max 2,50 mm²	max 2,50 mm²	max 2,50 mm²
Tc (° C) Max. housing temp.	105° C	105° C	105° C	105° C	105° C
Ta (°C)	-25°.....+85° C	-25°.....+85° C	-25°.....+85° C	-25°.....+85° C	-25°.....+85° C
Mains Voltage	198...242V	198...242V	198...242V	198...242V	198...242V
Weight	133 gr	133 gr	133 gr	133 gr	133 gr
Lamps	HS 35-70 W	HS 35-70 W	HS 100-400 W HI 35-400 W	HS 100-400 W HI 35-400 W	HS 100-400 W HI 35-400 W

INSTRUMENT INSTALLATION INSTRUCTIONS

Cabling Type and Section

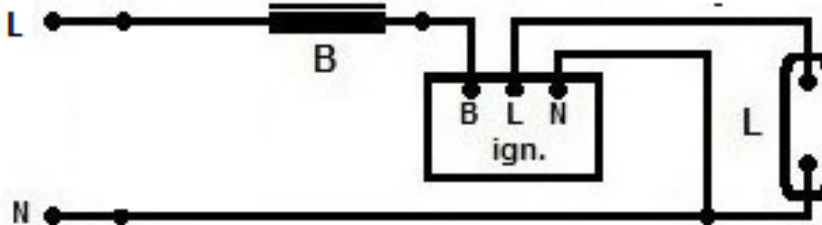
Input and output information can be seen in the figure below. As it is shown in the output side wire 0,2- 1,5mm² and in the input side 0,5-2.5mm². The insulation of the cables must be opened by 8 mm to ensure that the terminals work perfectly.

The lamp should be selected according to the ignition cable voltage. It is recommended to use the same wire types and same wire diameters. Make sure that the cables are connected securely.



Attention!

Always switch off the mains voltage before replacing the lamp. Voltage start is 1,8 kV in 35-70W and 35-400W Igniter and 3 kV in 100-400W Igniter. Not suitable for use with internal ignition lamps. Igniters can be used in Class I and Class II luminaires. The maximum torque is 4 Nm. Terminals that are not tightened as much as necessary can cause back. Incorrect connection may cause damage to the igniter.



GRUP İMAJ AYDINLATMA SAN.VE TİC. A.Ş.

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