



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

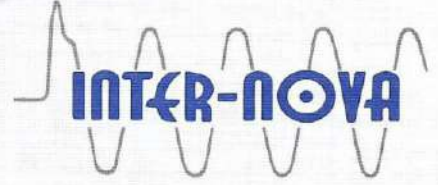
Metin ŞİMŞİT



**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)**  
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**CE**

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

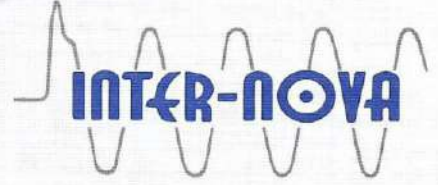


**AKADEMİ**  
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Metin ŞİMŞİT







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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](http://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](http://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  
İSTANBUL  
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](http://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 $\Phi$	0,44
Loading Capacitance	14 $\mu$ 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 <sup>2</sup>
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 $\Phi$	0,43
Loading Capacitance	20 $\mu$ 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 <sup>2</sup>
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 $\Phi$	0,43
Loading Capacitance	45 $\mu$ F
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 <sup>2</sup>
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 $\Phi$	0,42
Loading Capacitance	32 $\mu$ F
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 <sup>2</sup>
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](mailto:info@grupimaj.com)

**Website:** [www.grupimaj.com](http://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:



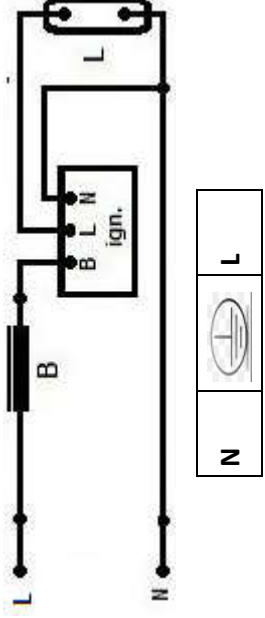
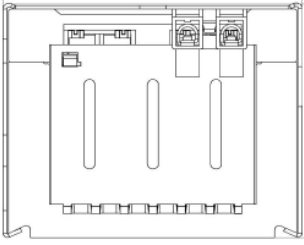
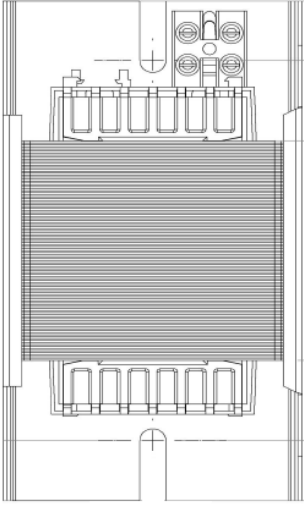
**GRUP İMAJ**

**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 mm<sup>2</sup>
- 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- 1.5mm<sup>2</sup> 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>
<b>MODEL</b>	<b>35-70 W</b>	<b>35-70 W</b>	<b>100-400 W</b>	<b>100-400 W</b>	<b>35-400 W</b>
<b>Fixture Standards</b>	<b>EN 61347-2-1 EN 60927</b>	<b>EN 61347-2-1 EN 60927</b>	<b>EN 61347-2-1 EN 60927</b>	<b>EN 61347-2-1 EN 60927</b>	<b>EN 61347-2-1 EN 60927</b>
<b>Type</b>	<b>No timing</b>	<b>Timing</b>	<b>No timing</b>	<b>Timing</b>	<b>Timing</b>
<b>Time setting</b>	<b>No timing</b>	<b>5,10,15.20 sec</b>	<b>No timing</b>	<b>5,10,15.20 sec</b>	<b>5,10,15.20 sec</b>
<b>Declaration and marking</b>	<b>ENEC/TSE / CE</b>	<b>ENEC/TSE / CE</b>	<b>ENEC/TSE / CE</b>	<b>ENEC/TSE / CE</b>	<b>ENEC/TSE / CE</b>
<b>Mains Frequency</b>	<b>50-60 Hz</b>	<b>50-60 Hz</b>	<b>50-60 Hz</b>	<b>50-60 Hz</b>	<b>50-60 Hz</b>
<b>Ignition voltage</b>	<b>1,8-2,4 Kv</b>	<b>1,8-2,4 Kv</b>	<b>3-4,5Kv</b>	<b>3-4,5Kv</b>	<b>3-4,5Kv</b>
<b>Max. Permissible lamp current</b>	<b>3 A</b>	<b>3 A</b>	<b>5 A</b>	<b>5 A</b>	<b>5 A</b>
<b>Max. Lamp distance to ignition</b>	<b>1,5 m</b>	<b>1,5 m</b>	<b>1,5 m</b>	<b>1,5 m</b>	<b>1,5 m</b>
<b>Load capacity</b>	<b>20.....150 pF</b>	<b>20.....150 pF</b>	<b>20.....150 pF</b>	<b>20.....150 pF</b>	<b>20.....150 pF</b>
<b>Wire cross section</b>	<b>max 2,50 mm<sup>2</sup></b>	<b>max 2,50 mm<sup>2</sup></b>	<b>max 2,50 mm<sup>2</sup></b>	<b>max 2,50 mm<sup>2</sup></b>	<b>max 2,50 mm<sup>2</sup></b>
<b>Tc (° C) Max. housing temp.</b>	<b>105° C</b>	<b>105° C</b>	<b>105° C</b>	<b>105° C</b>	<b>105° C</b>
<b>Ta (°C)</b>	<b>-25°.....+85° C</b>	<b>-25°.....+85° C</b>	<b>-25°.....+85° C</b>	<b>-25°.....+85° C</b>	<b>-25°.....+85° C</b>
<b>Mains Voltage</b>	<b>198...242V</b>	<b>198...242V</b>	<b>198...242V</b>	<b>198...242V</b>	<b>198...242V</b>
<b>Weight</b>	<b>133 gr</b>	<b>133 gr</b>	<b>133 gr</b>	<b>133 gr</b>	<b>133 gr</b>
<b>Lamps</b>	<b>HS 35-70 W</b>	<b>HS 35-70 W</b>	<b>HS 100-400 W HI 35-400 W</b>	<b>HS 100-400 W HI 35-400 W</b>	<b>HS 100-400 W HI 35-400 W</b>

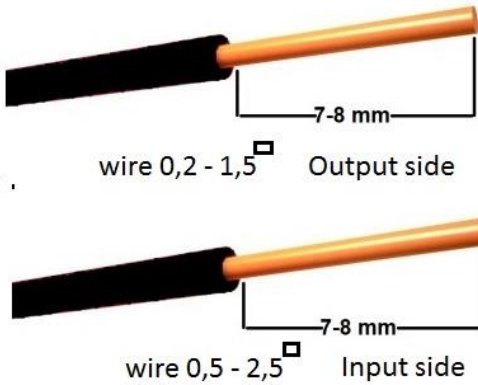


## INSTRUMENT INSTALLATION INSTRUCTIONS

### Cabling Type and Section

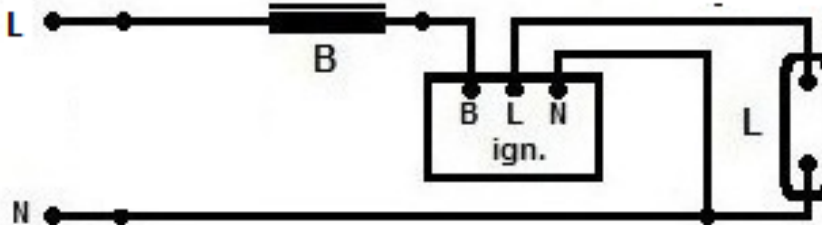
Input and output information can be seen in the figure below. As it is shown in the output side wire 0,2- 1,5mm<sup>2</sup> and in the input side 0,5-2.5mm<sup>2</sup>. The insulation of the cables must be opened by 8 mm to ensure that the terminals work perfectly.

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.

ADRES: DENİZ AKTAŞ CAD.NO:6 KAVAKLI/BEYLİKDÜZÜ – İSTANBUL TEL : +90(212) 689 93 10 FAX: +90(212) 689 93 11

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