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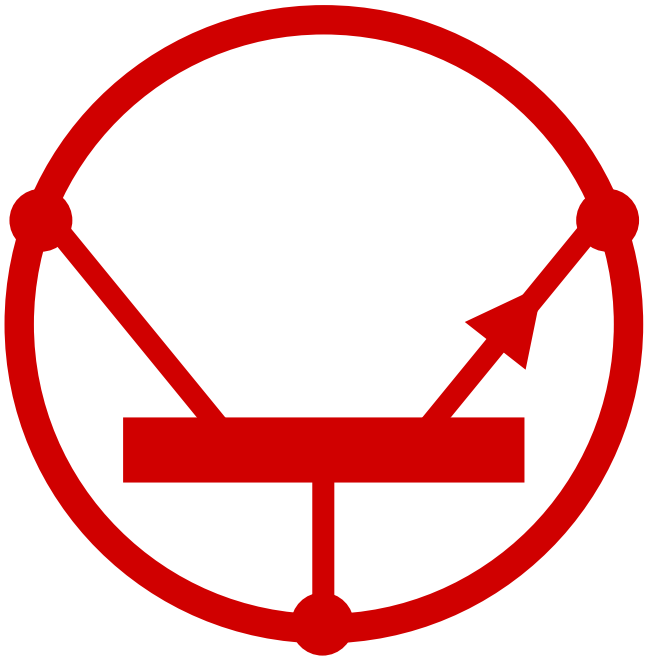

OFFSHORE SOLUTIONS

2024

SICE S.R.L.

- **<u>STANDARDS</u>:**

- **IALA (NAVIGATION AIDS)**
- **ICAO (AOL)**
- **CAP (HELIDECK LIGHTS)**
- **CAA (HELIDECK LIGHTS)**

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DISTINGUISHING FEATURES

INNOVATION TECHNOLOGY: LATEST AND HIGHEST TECHNOLOGIC STANDARD – REALIABLE AND ROBUST PRODUCTS – EFFICIENY AND HIGH QUALITY

FLEXIBILITY & CUSTOMIZATION: ACCORDANCE TO CUSTOMER SPECIFICATION - CUSTOMIZED SYSTEM - TURNKEY SYSTEM

ON SITE SERVICES: SYSTEM START-UP – ASSISTANCE ON SITE - LONG EXPERIENCE ON OFFSHORE SERVICES

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NAVIGATION AIDS & OBSTRUCTION LIGHTS

MAIN PRODUCTS:

- CONTROL PANELS (INDOOR – OUTDOOR – EX)
- MARINE LANTERNS
- FOG HORNS
- PHOTOCELL
- FOG DETECTORS
- BATTERY BOX
- LIOL-MIOL
- STATUS LIGHTS

- SOLAR POWERED SYSTEMS
- STAND ALONE SYSTEMS

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CONTROL PANELS

INFO:

- CONTROL FUNCTIONS FOR:
  - *BATTERY CHARGER*
  - *NAVAID SYSTEM*
  - *LOCAL AND REMOTE CONTROL INPUT*
  - *PHOTOCELL AND FOG DETECTOR*
  - *AUTOMATIC ACTIVATION OF SIGNAL LIGHT, FOG HORN & OBSTRUCTION LIGHT*

- AVAILABLE FOR SAFE AND HAZARDOUS AREA
- AVAILABLE WITH DIGITAL CONTROL SYSTEM
- DESIGNED TO CONNECT WITH **RS485** NETWORK

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NEW MARINE LANTERN

(UP TO 12NM)

- SUITABLE FOR SAFE AREA INSTALLATION AND WIND FARM

  IP66; Working Temperature from -40° to + 55°C

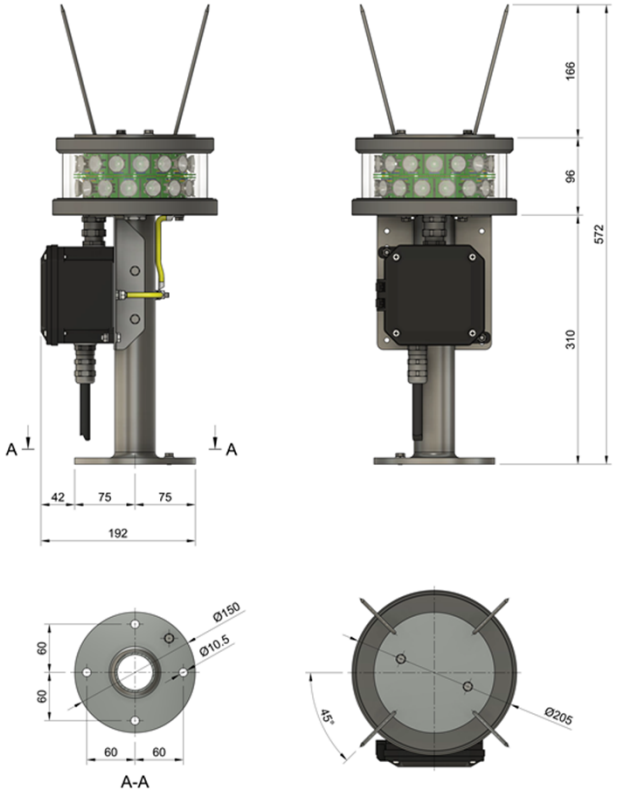
- LOW POWER CONSUMPTION

  (FROM 3 TO 80W DEPENDS FROM THE CONFIGURATION)

- MARINE GRADE ALUMINIUM WITH ANODIC OXIDATION

- LONG EXPECTED LIFE

- POWER SUPPLY: 24VDC & 230VAC



SAFE AREA VERSION

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MARINE LANTERN (5-10NM)

- SUITABLE FOR ZONE 1&2
  MARKING: Ex II 2G Ex d IIB T6 Gb; IP66; Working Temperature from -20° to + 50°C
- LOW POWER CONSUMPTION
  (25W PEAK 10NM; 10W PEAK 5NM)
- AISI 316L SS POLISHED BODY MAT.
- >50.000 HOURS EXPECTED LIFE
- POWER SUPPLY: 24VDC OR 230VAC

ATEX - IECEx CERTIFIED

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MARINE LANTERN (15NM)

- SUITABLE FOR ZONE 1
  MARKING: Ex II 2G Ex de IIC T4; IP66; Working Temperature from -52° to + 60°C
- LOW POWER CONSUMPTION
  (450W PEAK)
- MARINE GRADE ALUMINIUM PAINTED
- >25.000 HOURS EXPECTED LIFE
- POWER SUPPLY: 24VDC OR 230VAC

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FOG HORN (NV-V3 / NV-V4 VERSION)

- RANGE: NV-V3 2NM; NV-V4 2NM-0,5NM
- SUITABLE FOR ZONE 1 & 2

  MARKING: Ex II 2G Ex d IIB T5 Gb; IP66; Working Temperature from -4
- 360° SONOROUS IRRADIATION

  (NV-V3 SOUND PRESSURE LEVEL: 134db minimum a 1mt)
- LOW POWER CONSUMPTION

  (30W PEAK)
- MTBF >10 YEARS
- NV-V4 EQUIPPED WITH MAIN AND SECONDARY SYSTEM
- POWER SUPPLY: 24VDC/230VAC

ATEX & IECEx CERTIFIED

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FOG HORN (NV-V2 VERSION)

ATEX & IECEx CERTIFIED
OR FOR SAFE AREA

- RANGE: 2NM
- SUITABLE FOR ZONE 1 & 2
  MARKING: Ex II 2G Ex d IIB T5 Gb; IP66; Working Temperature from -40° to + 55°C
- 360° SONOROUS IRRADIATION
  (NV-V2 SOUND PRESSURE LEVEL: 134db minimum a 1mt)
- POWER CONSUMPTION: 160W
- MTBF >10 YEARS
- COMPLIES WITH IALA RECOMM.
- REDUCED SIZE & WEIGHT THAN NV-V3
- LOWER PRICE THAN NV-V3
- POWER SUPPLY: 24VDC/230VAC
- SUITABLE for SAFE AREA VERSION and WIND FARM

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PHOTOCELL

FTC:

- FOR SICE LANTERN AUTOMATIC ACTIVATION
- ATEX ENCLOSURE CAN BE INCLUDED
- SUITABLE FOR ZONE 1 & 2

ATEX & IECEx CERTIFIED

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FOG DETECTORS

- FOR SICE FOG HORN AUTOMATIC ACTIVATION
- VISIBILITY THRESHOLD DELAY
- FULLY PROGRAMMABLE
- COMPLETE WITH FAUL ALARM RELAY
- ACCURATE MEASUREMENT
- VERSIONS FOR SAFE OR HAZARDOUS AREA
  (MARKING II 2GD Ex d IIB T5/T6)

SAFE AREA VERSION

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BATTERY BOX

- MADE IN AISI 316 L SS AND ANTI-ACID PROTECTED PAINTING
- USED FOR NiCd BATTERIES OR LEAD ACID BATTERIES
- VARYING CAPACITY & VOLTAGE
- SUITABLE FOR ZONE 1&2 (MARKING: II 2G Ex-eb IIC T6 Gb IP 56)

ATEX IECEx CERTIFIED

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STATUS LIGHT

- SUITABLE FOR ZONE 1
  MARKING: Ex II 2G Ex de IIC T4; IP66; Working Temperature from -52° to + 60°C
- LOW POWER CONSUMPTION
  (70W AVERAGE)
- MARINE GRADE ALUMINIUM PAINTED
- ACCORDING TO ICAO, CAA & CAP 437
- POWER SUPPLY: 24VDC OR 230VAC

ATEX - IECEx CERTIFIED

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REPEATER LIGHT

- SUITABLE FOR ZONE 1

  MARKING: Ex II 2G Ex de IIC T..Gb; IP66; Working Temperature from -40° to + 70°C

- LOW POWER CONSUMPTION

  (7W PEAK – 1W OFF TIME)

- NATURAL FINISH SS316L BODY

- ACCORDING TO CAP 437

- POWER SUPPLY: 24VDC OR 230VAC

ATEX - IECEx CERTIFIED

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OBSTRUCTION (WARNING) LIGHT

LIOL:

- LOW INTENSITY OBSTRUCTION LIGHT, ADAPTABLE FOR USE
  - -AREONAUTICAL LIOL A & B OBSTRUCTION LIGHTS
  - -COMPLIANCE WITH ICAO

MIOL:

- MEDIUM INTENSITY OBSTRUCT. LIGHT, ADAPTABLE FOR USE
  - -AREONAUTICAL MIOL B & C OBSTRUCTION LIGHTS
  - -COMPLIANCE WITH ICAO

DUAL INTENSITY:

- HIGH INTENSITY OBSTRUCT. LIGHT, ADAPTABLE FOR USE AS:
  - -AREONAUTICAL MIOL AB AC OBSTRUCTION LIGHTS (DAY/NIGHT)
  - -COMPLIANCE WITH ICAO

ZONE 1 ATEX IECEx CERT.

Whole range boasts very low consumption and >10 years life expectancy when supplied with -24VDC or 230VAC Voltage.

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SOLAR POWERED LIGHT

ATEX ZONE 1 CERTIFIED SYSTEM

- This system is used to mark a classified zone as Ports, Buoys etc.. Completed with marine lantern, photocell, solar module (Atex certified), charge regulator, batteries (Atex certified) and protection switches. The system starts to work when the switches are activated.

CUSTOMIZATION STAND ALONE SYSTEM

ZONE 1 ATEX IECEx CERT.

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SOLAR POWERED LIGHT

ATEX ZONE 2 CERTIFIED SYSTEM

- This system is used to mark a classified zone as Ports, Buoys,Crane, Flare etc.. Completed with aircraft warning light or marine lantern, photocell, solar module (Atex certified zone 2), charge regulator, batteries (Atex certified zone 2) and protection switches. The system starts to work when the switches are activated.

CUSTOMIZATION STAND ALONE SYSTEM

ZONE 2 ATEX IECEx CERT.

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SOLAR POWERED LIGHT

SAFE AREA SYSTEM

- This system is used to mark a safe zone as Wind farms, Ports, Buoys, Crane, Flare etc.. Completed with aircraft warning light or marine lantern, photocell, solar module, charge regulator, batteries and protection switches. The system starts to work when the switches are activated.

CUSTOMIZATION STAND ALONE SYSTEM

SAFE AREA VERSION

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SELF-CONTAINED MARINE LANTERN (UP TO 6NM)

- SUITABLE FOR SAFE AREA
  Working Temperature from -40° to + 60°C; IP 67
- LONG EXPECTED LIFE
- ENAMELLED STAINLESS STEEL
- ACCORDING TO IALA & 2004/108/UE

SAFE AREA VERSION

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OTHER STAND ALONE SYSTEMS (SAFE AREA INSTALLATION)

- SPECS CAN BE CHANGED TO FIT CUSTOMER NEEDS

- EASY TRANSPORT AND INSTALLATION

- CAN BE POWERED BY PRIMARY BATTERY OR SOLAR SYSTEM

CUSTOMIZATION SYSTEMS

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HELIDECK LIGHTING

- SICE's Helideck lighting system is composed of products suitable for installation in hazardous areas (Zone 1 and 2) and in marine environment.

- The peculiarities of our products are a very long life and high reliability that are guaranteed by their exceptional quality and robustness.

- Our typical Helideck lighting system consists of floodlights, perimeter lights and status lights in compliance with ICAO, CAA, CAP437 and IMO codes.

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HELIDECK LIGHTING

MAIN PRODUCTS:

- CIRCLE-H
- PERIMETER LIGHTS
- FLOODLIGHTS
- STATUS LIGHTS
- ILLUMINATED WINDSOCK

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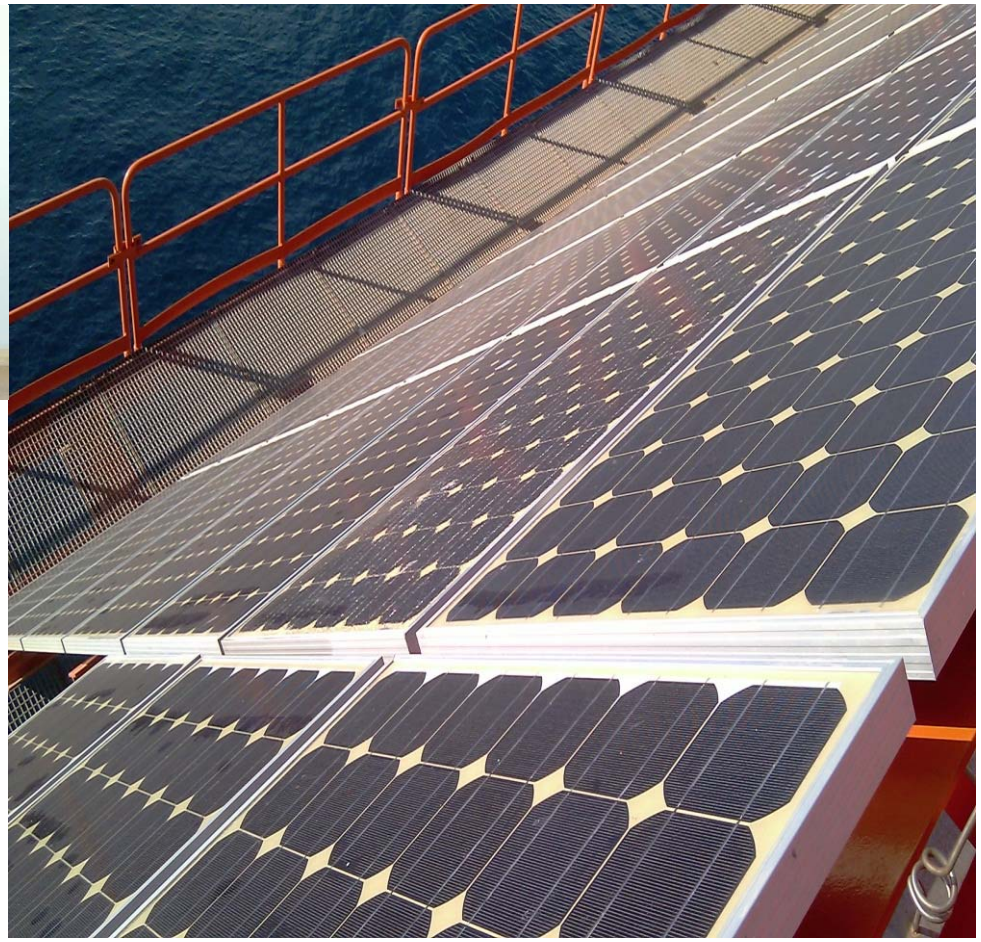
PHOTOVOLTAIC SYSTEM

- SICE's off-shore electric energy generation systems are manufactured to Customer specification using products of the highest technologic and qualitative standards.
- The design and engineering of our systems is developed internally by our engineers using, as comparison, the best International data base (usually created by NASA).
- A defining characteristic of SICE's photovoltaic systems is that our solar main system is divided in more small subsystem that are able to work in parallel mode. This mode increase the reliability of the system because a failure of one subsystem not influence the working of the others.
- The regulation panel is manufactured in compliance with international Rules and can be made suitable for safe area & for hazardous area.

OFFSHORE SOLAR SYSTEM



MAIN PRODUCTS:

- *SOLAR MODULES*
- *LIGHT STRUCTURE SUPPORT FOR ARRAY ASSEMBLING*
- *ANTI-WINGED SYSTEM*
- *MECHANICAL BEAM STRUCTURE*
- *SUB-FIELD PARALLEL JUNCTION BOXES*
- *REGULATION PANEL*
- *TEMPERATURE PROBE*
- *SOLARIMETER*

AVAILABLE FOR SAFE & HAZARDOUS AREA

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