

# QH SERIES

## INTEGRATED SOLAR LED STREET LIGHT

Smart, modular street lighting for remote and grid-limited locations.

60W - 250W PRODUCT RANGE

**190 lm/W**

EFFICIENCY

**IP66 / IK09**

PROTECTION

**47,500 lm**

MAX OUTPUT

**6-8 h**

CHARGING

**12 h / night**

LIGHTING

**50,000 h**

LIFETIME

### SMART LIGHTING MODES

Timer control | Microwave sensor | Mixed mode

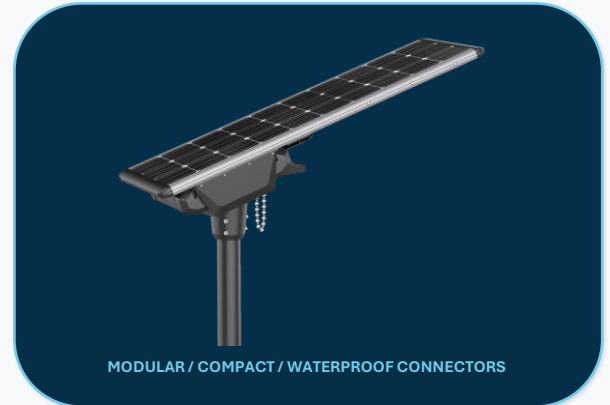


SILVER GRAY & COLOR OPTION AVAILABLE ON REQUEST

## INTEGRATED SOLAR LED STREET LIGHT

# Smart solar lighting, engineered as one system

The QH Series combines solar, camera and LED technology in a compact integrated platform for areas without dependable electricity supply. The battery charges during the day; smart control manages monitoring and illumination at night.



01

**Modular construction**

Each module connects through waterproof connectors for a compact format and simpler maintenance.

02

**Lithium battery**

CEC Group lithium battery: 10+ years calendar life and 2,000+ cycles at 90% DOD, as stated in the source.

03

**Adjustable LED module**

Hoop or sleeve installation with LED modules adjustable up and down by 15 degrees.

## LIGHTING &amp; CONTROL MODES

Built-in timer and microwave sensing support programmed lighting profiles through the controller and remote control.

## MODE 1

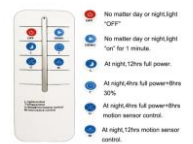
**3 h at 100% brightness**  
**2 h at 80% brightness**  
**7 h at 25% brightness**

Total: 12 hours lighting per night

## MODE 2

**People detected: 100%**  
**After 30 seconds: 30% lighting**  
**Microwave sensor active**

Total: 12 hours lighting per night



REMOTE

## DESIGN &amp; COMPLIANCE

Designed and produced under EN 60598-1 and EN 60598-2-3. The source also states compliance with EN55015:2013, EN61547:2009, EN61000-3-2:2006 + A1:2009 + A2:2009, EN61000-3-3:2013 and RoHS 2.0.

**COLOR OPTION: SILVER GRAY**

## QH SERIES LINEUP

# Seven configurations from 60W to 250W

All models share 190 lm/W luminous efficiency, Type II beam distribution, IP66 / IK09 protection, 50,000-hour L70 lifetime, and microwave-sensor control.

| MODEL          | WATT | LUMENS    | SOLAR PANEL | BATTERY      | HEIGHT  | SPACING |
|----------------|------|-----------|-------------|--------------|---------|---------|
| ARLX-LD60W-QH  | 60W  | 11,400 lm | 18V 80W     | DC12.8V 30AH | 6-8 m   | 20-25 m |
| ARLX-LD80W-QH  | 80W  | 15,200 lm | 18V 100W    | DC12.8V 45AH | 8-9 m   | 25-30 m |
| ARLX-LD100W-QH | 100W | 19,000 lm | 18V 130W    | DC12.8V 45AH | 9-10 m  | 30-35 m |
| ARLX-LD120W-QH | 120W | 22,800 lm | 18V 140W    | DC12.8V 60AH | 10-11 m | 35-40 m |
| ARLX-LD150W-QH | 150W | 28,500 lm | 18V 150W    | DC12.8V 75AH | 10-12 m | 35-40 m |
| ARLX-LD200W-QH | 200W | 38,000 lm | 36V 200W    | DC25.6V 45AH | 10-12 m | 35-40 m |
| ARLX-LD250W-QH | 250W | 47,500 lm | 36V 250W    | DC25.6V 60AH | 10-12 m | 35-40 m |

## COMMON OPTICAL &amp; MECHANICAL PLATFORM

3000K / 4000K / 5000K / 6500K | CRI Ra>70 | Type II | LED module adjustable 15 degrees

Die-cast aluminum radiator | PC lens | 70-76 mm pole diameter | 6-8 h charging

## QH SERIES

## 60W &amp; 80W configurations

Compact models for 6-9 m installation heights.

## ARLX-LD60W-QH

60W



Microwave Sensor / Timer Control / Mixed Mode

11,400 lm

LUMINOUS FLUX

18V 80W

SOLAR PANEL

6-8 m

INSTALL HEIGHT

## ELECTRICAL

|                       |                                   |
|-----------------------|-----------------------------------|
| Battery               | DC12.8V 30AH LiFePO4              |
| Charging Time         | 6-8 h                             |
| Discharging Time      | Support 5-7 cloudy / raining days |
| Operating Temperature | -25 C to +65 C                    |
| Controller            | Microwave Sensor                  |

## PHOTOMETRIC

|                     |                               |
|---------------------|-------------------------------|
| LED Chips           | Bridgelux 5050 - 96 pcs       |
| Efficiency          | 190 lm/W                      |
| CCT                 | 3000K / 4000K / 5000K / 6500K |
| Beam / Module Angle | Type II / up-down 15 degrees  |

## MECHANICAL &amp; PACKING

|                   |                                               |
|-------------------|-----------------------------------------------|
| Protection        | IP66 / IK09                                   |
| Lifetime          | 50,000 h - L70 @25 C                          |
| Fixture Dimension | L949 x W434 x H319 mm                         |
| Pole / Spacing    | 70-76 mm / 20-25 m                            |
| Packing           | L1010 x W495 x H100 mm; L510 x W470 x H270 mm |
| Net / Gross       | 14.20 kg / 15.30 kg                           |
| Container         | 160 sets/20', 330 sets/40'                    |

## ARLX-LD80W-QH

80W



Microwave Sensor / Timer Control / Mixed Mode

15,200 lm

LUMINOUS FLUX

18V 100W

SOLAR PANEL

8-9 m

INSTALL HEIGHT

## ELECTRICAL

|                       |                                   |
|-----------------------|-----------------------------------|
| Battery               | DC12.8V 45AH LiFePO4              |
| Charging Time         | 6-8 h                             |
| Discharging Time      | Support 5-7 cloudy / raining days |
| Operating Temperature | -25 C to +65 C                    |
| Controller            | Microwave Sensor                  |

## PHOTOMETRIC

|                     |                               |
|---------------------|-------------------------------|
| LED Chips           | Bridgelux 5050 - 144 pcs      |
| Efficiency          | 190 lm/W                      |
| CCT                 | 3000K / 4000K / 5000K / 6500K |
| Beam / Module Angle | Type II / up-down 15 degrees  |

## MECHANICAL &amp; PACKING

|                   |                                               |
|-------------------|-----------------------------------------------|
| Protection        | IP66 / IK09                                   |
| Lifetime          | 50,000 h - L70 @25 C                          |
| Fixture Dimension | L1229 x W434 x H319 mm                        |
| Pole / Spacing    | 70-76 mm / 25-30 m                            |
| Packing           | L1290 x W495 x H100 mm; L510 x W470 x H270 mm |
| Net / Gross       | 17.20 kg / 18.20 kg                           |
| Container         | 150 sets/20', 310 sets/40'                    |

## QH SERIES

## 100W &amp; 120W configurations

Mid-range output with 19,000-22,800 lm luminous flux.

## ARLX-LD100W-QH

100W



Microwave Sensor / Timer Control / Mixed Mode

19,000 lm

LUMINOUS FLUX

18V 130W

SOLAR PANEL

9-10 m

INSTALL HEIGHT

## ELECTRICAL

|                       |                                   |
|-----------------------|-----------------------------------|
| Battery               | DC12.8V 45AH LiFePO4              |
| Charging Time         | 6-8 h                             |
| Discharging Time      | Support 5-7 cloudy / raining days |
| Operating Temperature | -25 C to +65 C                    |
| Controller            | Microwave Sensor                  |

## PHOTOMETRIC

|                     |                               |
|---------------------|-------------------------------|
| LED Chips           | Bridgelux 5050 - 144 pcs      |
| Efficiency          | 190 lm/W                      |
| CCT                 | 3000K / 4000K / 5000K / 6500K |
| Beam / Module Angle | Type II / up-down 15 degrees  |

## MECHANICAL &amp; PACKING

|                   |                                               |
|-------------------|-----------------------------------------------|
| Protection        | IP66 / IK09                                   |
| Lifetime          | 50,000 h - L70 @25 C                          |
| Fixture Dimension | L1489 x W434 x H319 mm                        |
| Pole / Spacing    | 70-76 mm / 30-35 m                            |
| Packing           | L1550 x W495 x H100 mm; L510 x W470 x H270 mm |
| Net / Gross       | 17.60 kg / 19.70 kg                           |
| Container         | 140 sets/20', 290 sets/40'                    |

## ARLX-LD120W-QH

120W



Microwave Sensor / Timer Control / Mixed Mode

22,800 lm

LUMINOUS FLUX

18V 140W

SOLAR PANEL

10-11 m

INSTALL HEIGHT

## ELECTRICAL

|                       |                                   |
|-----------------------|-----------------------------------|
| Battery               | DC12.8V 60AH LiFePO4              |
| Charging Time         | 6-8 h                             |
| Discharging Time      | Support 5-7 cloudy / raining days |
| Operating Temperature | -25 C to +65 C                    |
| Controller            | Microwave Sensor                  |

## PHOTOMETRIC

|                     |                               |
|---------------------|-------------------------------|
| LED Chips           | Bridgelux 5050 - 192 pcs      |
| Efficiency          | 190 lm/W                      |
| CCT                 | 3000K / 4000K / 5000K / 6500K |
| Beam / Module Angle | Type II / up-down 15 degrees  |

## MECHANICAL &amp; PACKING

|                   |                                               |
|-------------------|-----------------------------------------------|
| Protection        | IP66 / IK09                                   |
| Lifetime          | 50,000 h - L70 @25 C                          |
| Fixture Dimension | L1684 x W434 x H319 mm                        |
| Pole / Spacing    | 70-76 mm / 35-40 m                            |
| Packing           | L1745 x W495 x H100 mm; L510 x W470 x H270 mm |
| Net / Gross       | 20.30 kg / 22.00 kg                           |
| Container         | 130 sets/20', 270 sets/40'                    |

## QH SERIES

## 150W &amp; 200W configurations

High-output models delivering 28,500-38,000 lm.

## ARLX-LD150W-QH

150W



Microwave Sensor / Timer Control / Mixed Mode

28,500 lm

LUMINOUS FLUX

18V 150W

SOLAR PANEL

10-12 m

INSTALL HEIGHT

## ELECTRICAL

|                       |                                   |
|-----------------------|-----------------------------------|
| Battery               | DC12.8V 75AH LiFePO4              |
| Charging Time         | 6-8 h                             |
| Discharging Time      | Support 5-7 cloudy / raining days |
| Operating Temperature | -25 C to +65 C                    |
| Controller            | Microwave Sensor                  |

## PHOTOMETRIC

|                     |                               |
|---------------------|-------------------------------|
| LED Chips           | Bridgelux 5050 - 240 pcs      |
| Efficiency          | 190 lm/W                      |
| CCT                 | 3000K / 4000K / 5000K / 6500K |
| Beam / Module Angle | Type II / up-down 15 degrees  |

## MECHANICAL &amp; PACKING

|                   |                                               |
|-------------------|-----------------------------------------------|
| Protection        | IP66 / IK09                                   |
| Lifetime          | 50,000 h - L70 @25 C                          |
| Fixture Dimension | L1814 x W434 x H319 mm                        |
| Pole / Spacing    | 70-76 mm / 35-40 m                            |
| Packing           | L1875 x W495 x H100 mm; L510 x W470 x H270 mm |
| Net / Gross       | 22.50 kg / 24.40 kg                           |
| Container         | 130 sets/20', 270 sets/40'                    |

## ARLX-LD200W-QH

200W



Microwave Sensor / Timer Control / Mixed Mode

38,000 lm

LUMINOUS FLUX

36V 200W

SOLAR PANEL

10-12 m

INSTALL HEIGHT

## ELECTRICAL

|                       |                                   |
|-----------------------|-----------------------------------|
| Battery               | DC25.6V 45AH LiFePO4              |
| Charging Time         | 6-8 h                             |
| Discharging Time      | Support 5-7 cloudy / raining days |
| Operating Temperature | -25 C to +65 C                    |
| Controller            | Microwave Sensor                  |

## PHOTOMETRIC

|                     |                               |
|---------------------|-------------------------------|
| LED Chips           | Bridgelux 5050 - 288 pcs      |
| Efficiency          | 190 lm/W                      |
| CCT                 | 3000K / 4000K / 5000K / 6500K |
| Beam / Module Angle | Type II / up-down 15 degrees  |

## MECHANICAL &amp; PACKING

|                   |                                               |
|-------------------|-----------------------------------------------|
| Protection        | IP66 / IK09                                   |
| Lifetime          | 50,000 h - L70 @25 C                          |
| Fixture Dimension | L1984 x W434 x H319 mm                        |
| Pole / Spacing    | 70-76 mm / 35-40 m                            |
| Packing           | L2045 x W495 x H100 mm; L510 x W470 x H270 mm |
| Net / Gross       | 25.60 kg / 27.00 kg                           |
| Container         | 125 sets/20', 260 sets/40'                    |

## QH SERIES

## 250W flagship configuration

The highest-output QH Series model with 47,500 lm luminous flux.



Microwave Sensor / Timer Control / Mixed Mode

**47,500 lm**

LUMINOUS FLUX

**36V 250W**

SOLAR PANEL

**10-12 m**

INSTALL HEIGHT

**35-40 m**

POLE SPACING

**DC25.6V 60AH**

BATTERY

**336 pcs**

LED CHIPS

## ELECTRICAL SPECIFICATIONS

|                       |                                   |
|-----------------------|-----------------------------------|
| Model No.             | ARLX-LD250W-QH                    |
| Nominal Wattage       | 250W                              |
| Battery               | DC25.6V 60AH LiFePO4              |
| Solar Panel           | 36V 250W Monocrystal              |
| Charging Time         | 6-8 h                             |
| Discharging Time      | Support 5-7 cloudy / raining days |
| Operating Temperature | -25 C to +65 C                    |
| Controller            | Microwave Sensor                  |
| Remote Control        | 1 pc remote control per lot       |

## MECHANICAL SPECIFICATIONS

|                      |                          |
|----------------------|--------------------------|
| IP / IK Rating       | IP66 / IK09              |
| Lifetime             | 50,000 hours - L70 @25 C |
| Heat Radiator        | Die-cast aluminum        |
| Lens                 | PC                       |
| Fixture Dimension    | L2264 x W434 x H319 mm   |
| Pole Diameter        | 70-76 mm                 |
| Install Height       | 10-12 m                  |
| Suggested Pole Space | 35-40 m                  |

## PHOTOMETRIC SPECIFICATIONS

|                     |                               |
|---------------------|-------------------------------|
| LED Chips           | Bridgelux 5050 - 336 pcs      |
| Luminous Flux       | 47,500 lm                     |
| Luminous Efficiency | 190 lm/W                      |
| CRI                 | Ra >70                        |
| CCT                 | 3000K / 4000K / 5000K / 6500K |
| Beam Angle          | Type II                       |
| LED Module Angle    | Up / down 15 degrees          |

## PACKING

|                     |                            |
|---------------------|----------------------------|
| Lamp Carton Size    | L2325 x W495 x H100 mm     |
| Battery Box Packing | L510 x W470 x H270 mm      |
| Net Weight          | 29.50 kg                   |
| Gross Weight        | 31.00 kg                   |
| Container           | 118 sets/20', 245 sets/40' |

## COMMON PERFORMANCE

190 lm/W | IP66 | IK09 | 50,000 h | Type II

# QH SERIES

## INTEGRATED SOLAR LED STREET LIGHT

Designed for locations without dependable electricity supply, with smart control to maximize solar energy and deliver programmed illumination through the night.

**190 lm/W**

LUMINOUS EFFICIENCY

**IP66 / IK09**

PROTECTION

**50,000 h**

L70 LIFETIME @25 C

**6-8 h**

CHARGING TIME

**5-7 days**

CLOUDY / RAINING SUPPORT

**12 h**

LIGHTING PER NIGHT



COMMON PLATFORM

Type II beam | 3000K-6500K CCT  
Die-cast aluminum | PC lens  
LED module adjustable 15 degrees

### GENERAL INQUIRIES

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