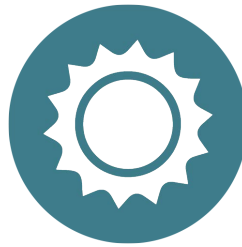




LI HTINUS

think ahead





Solar Panels



LED Light



Motion Sensor



Wi-Fi Hot Spot



Big Data Platform

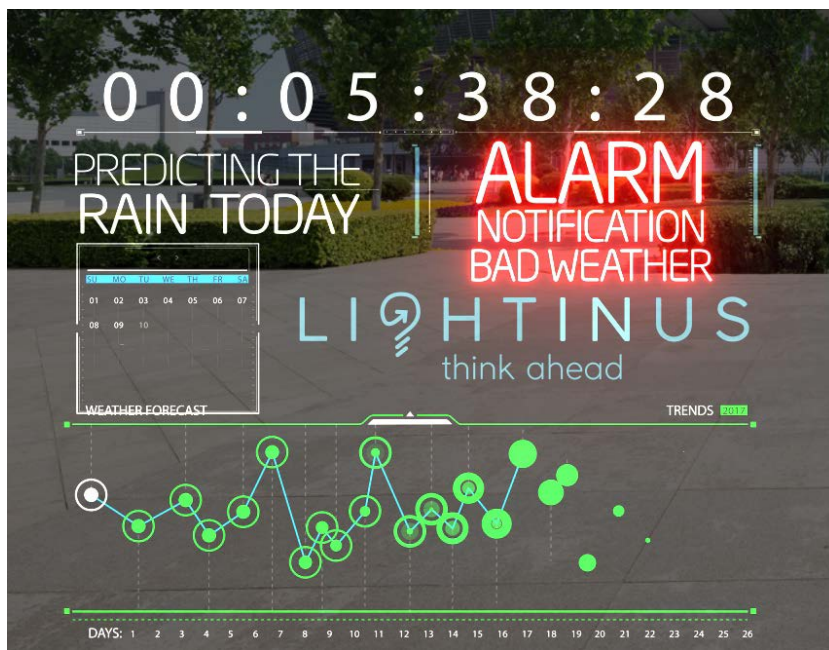


Remote Management System



Kinetic Tiles





24/7 remote management system (RMS)



Brightest light powered by clean energy



Our street lights cut your electricity cost to zero



Our software reduces your maintenance costs by 80 %



Our weather predictability feature enables our lights to function during low energy periods



Lower installation costs, no need for trenching and cabling



Onsite and online support by our team
- We are your partner before, during and after the sale



Ensuring reliability and quality, up to 10 years guarantees for critical parts



Our cloud platform with smart sensors enables efficient decision-making for better quality life



LIGHTINUS STREET LIGHT MODELS

The Smartest Lights in the Industry

Lightinus street lighting system is entirely self-sufficient off-the-grid solution for private, commercial and municipal applications. Lightinus illuminates entire areas without the need for excavation works, cable laying and grid connection, delivering much lower installation, maintenance and energy cost. Our Remote Management Software (RMS) and wireless communication networks enable real-time on-line monitoring and management of each Lightinus unit with unmatched reliability, optimized system performance and the brightest light all year long, while prolonging battery and LED light life cycles and decreasing electricity costs. Lightinus features include motion sensor and dimming functionality, 24/7 remote management system, smart solar controllers, smart sensors and cloud platform, efficient installation tools and much more.

TECHNICAL SPECIFICATIONS

| Technical Specifications | General |
|--------------------------|---|
| LED Light | Up to 50,000 Hours of lifetime |
| Battery | 10 + years using smart RMS software |
| PV module | Lifetime-25 years |
| Pole | Hot dip galvanized steel with anchoring plate/ Custom color options |
| Protection | IP 65 - all product components |
| Temperature range | -20 °C to +50 °C |
| Typical Application | Campuses, parks, squares, sidewalks, commercial,private compounds, avenues, roadways, parking lots, malls and airports, highways and boulevards |
| System Autonomy | Smart technology enables autonomy up to 365 days |

Product Line



Lightinus street light: MODEL-S, MODEL-M & CUSTOM MODEL



Lightinus RMS service packages: BASIC, ADVANCED & PREMIUM



Each Lightinus street light is equipped with Basic RMS package

LIGHTINUS-S



| System Components | LIGHTINUS- S model |
|---------------------------|--|
| Pole | 4 Meters -Hot dip galvanized steel with anchoring plate |
| Battery | AGM VRLA -160 AH 3000 battery life cycles at 75 % DOD* |
| PV module | 200 Watt 0 azimuth at 35 ° |
| LED Light | 30 Watt 3,500 lm asymmetric light distribution Colour temperature 4,000 K |
| Electrical Box | On the pole/Undershaft/ In the bench** |
| Controller | Smart MPPT charge controller - Off the grid or on the grid options Two loads controlling option |
| Dimming Control | Dimming controls are 0-10v, 0-5v, PWM signal and PWM power. These profiles can be remotely upgraded to meet any LED light manufacturer spec, allowing replacement or upgrade of LED lights on the fly |
| Motion Detection Option | Motion detection can be enabled in all 4 adjustable light profile stages. Motion light levels can be adjusted remotely with Lightinus software. Real time event settings combined with motion detection ensures the right amount of light at the right time, while optimizing system availability and cycle life of the system |
| Monitoring Sensors | Voltage/current for all inputs/outputs Battery temperature |
| Light Profiles | Profiles can be remotely changed in real time, using the Lightinus cloud service, with full customization of dimming / time settings |
| Modular Design | Instead of 4 meter pole, our poles are modular consisting of 2 metal parts each 2 meters long, decreasing transportation and logistics costs |
| Connectors/Wiring Harness | Color coded and keyed quick connects make installation foolproof and easy. Integrated cable harness. Anderson, Molex and RJ11 connectors. Gasketed sealed plastic enclosure ensures no water penetration from any point |
| Communications | Built-in pre-configured communications, streams data automatically to Lightinus cloud. Options for Mesh, 3G Cellular, WiFi. Supported in over 170 countries |
| Remote Control | All settings remotely managed by the Lightinus cloud service, including remote monitoring and troubleshooting |
| System Autonomy | Remote management system enables 365 days of autonomy |
| Typical Application | Campuses, parks, squares, sidewalks, commercial and private compounds |
| Note* | Battery capacity varies based on specific location in question and solar irradiance |
| Note** | Based on customer request |

| System Components | Optional customization features and upgrades |
|------------------------------|--|
| Solar Panel | 120-250 Watt 0 azimuth at 35 ° |
| Battery | AGM VRLA 120- 240 AH |
| LED Light | 20-60 Watt |
| Controller | Smart MPPT charge controller - Off the grid or on the grid options Two loads controlling option |
| RGB Backlight | Ambient RGB lighting beneath solar panel array creating unique appearance |
| Wi-Fi hotspot | Wireless area network around the street light (1.5 meters line of sight) |
| Kinetic Tiles | Dimensions: 500mm each edge Power rating: 5 Watts continuous power from footsteps Voltage: 48V (Range 1.2V - 48V) Materials: Steel, recycled Aluminium, Composite. Minimum order size: 2x4m array. |
| Smart Cloud platform/sensors | Cloud platform software enabling real time data insights and reports supporting multiple sensor options: Temperature, Humidity, Luminosity, Microphone, Linear Displacement and Ultrasound sensors Other sensor available per customer request |
| Bench | Bench can be added as an optional feature |

LIGHTINUS- M



| System Components | LIGHTINUS- M model |
|---------------------------|--|
| Pole | 6 Meters -Hot dip galvanized steel with anchoring plate |
| Battery | AGM VRLA -260 AH 3000 battery life cycles at 75 % DOD* |
| PV module | 250 Watt 0 azimuth at 35 ° |
| LED Light | 60 Watt 7,150 lm asymmetric light distribution Colour temperature 4,000 K |
| Electrical Box | On the pole/Undershaft/ In the bench** |
| Controller | Smart MPPT charge controller - Off the grid or on the grid options Two loads controlling option |
| Dimming Control | Dimming controls are 0-10v, 0-5v, PWM signal and PWM power. These profiles can be remotely upgraded to meet any LED light manufacturer spec, allowing replacement or upgrade of LED lights on the fly |
| Motion Detection Option | Motion detection can be enabled in all 4 adjustable light profile stages. Motion light levels can be adjusted remotely with Lightinus software. Real time event settings combined with motion detection ensures the right amount of light at the right time, while optimizing system availability and cycle life of the system |
| Monitoring Sensors | Voltage/current for all inputs/outputs Battery temperature |
| Light Profiles | Profiles can be remotely changed in real time, using the Lightinus cloud service, with full customization of dimming / time settings |
| Modular Design | Instead of 6 meter pole, our poles are modular consisting of 2 metal parts each 3 meters long, decreasing transporations and logistics costs |
| Connectors/Wiring Harness | Color coded and keyed quick connects make installation foolproof and easy. Integrated cable harness. Anderson, Molex and RJ11 connectors. Gasketed sealed plastic enclosure ensures no water penetration from any point |
| Communications | Built-in pre-configured communications, streams data automatically to Lightinus cloud. Options for Mesh, 3G Cellular, WiFi. Supported in over 170 countries |
| Remote Control | All settings remotely managed by the Lightinus cloud service, including remote monitoring and troubleshooting |
| System Autonomy | Remote management system enables 365 days of autonomy |
| Typical Application | Avenues, roadways, parking lots, malls and airports |
| Note* | Battery capacity varies based on specific location in question and solar irradiance |
| Note** | Based on customer request |

| System Components | Optional customization features and upgrades |
|------------------------------|--|
| Solar Panel | 150-300 Watt 0 azimuth at 35 ° |
| Battery | AGM VRLA 120- 320 AH |
| LED Light | 30-80 Watt |
| Controller | Smart MPPT charge controller - Off the grid or on the grid options Two loads controlling option |
| RGB Backlight | Ambient RGB lighting beneath solar panel array creating unique appearance |
| Wi-Fi hotspot | Wireless area network around the street light (15 meters line of sight) |
| Kinetic Tiles | Dimensions: 500mm each edge Power rating: 5 Watts continuous power from footsteps Voltage: 48V (Range 12V - 48V) Materials: Steel, recycled Aluminium, Composite. Minimum order size: 2x4m array. |
| Smart Cloud platform/sensors | Cloud platform software enabling real time data insights and reports supporting multiple sensor options: Temperature, Humidity, Luminosity, Microphone, Linear Displacement and Ultrasound sensors Other sensor available per customer request |
| Bench | Bench can be added as an optional feature |

CREATE YOUR LIGHTINUS STREET LIGHT

We are your partner before, during and after the sale

We care what type of street light model and network you choose to implement. As a result, we take each client request and project requirements with due care and thorough analytic approach in determining the most feasible solar system components, technical product specifications and capacity for your preferred type of street light. Based on your location, temperature and irradiance coefficients as well as your energy needs, we will complete detailed calculations to provide you with the most optimal off-the-grid system solutions for your specific case. Benefit from our lightinus value added services:



Customizable options to define street light model and desired network



Solar system calculations based on specific parameters



On-site and on-line support by our team



Detailed installation manuals, smartphone app for easy and successful installation/system check



Communication plans, monitoring and maintenance support through our RMS Cloud



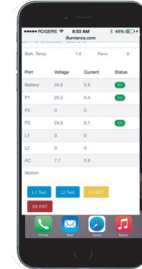
Training for software usage

| System Components | Optional customization features and upgrades |
|------------------------------|---|
| Solar Panel | 120-400 Watt 0 azimuth at 35° |
| Battery | AGM VRLA 120- 400 AH |
| LED Light | 20-100 Watt |
| Controller | Smart MPPT charge controller - Off the grid or on the grid options Two loads controlling option |
| Pole height | 4-12 meters |
| RGB Backlight | Ambient RGB lighting beneath solar panel array creating unique appearance |
| Wi-Fi hotspot | Wireless area network around the street light (15 meters line of sight) |
| Kinetic Tiles | Dimensions: 500mm each edge Power rating: 5 Watts continuous power from footsteps Voltage: 48V (Range 12V - 48V) Materials: Steel, recycled Aluminium, Composite. Minimum order size: 2x4m array. |
| Smart Cloud platform/sensors | Cloud platform software enabling real time data insights and reports supporting multiple sensor options: Temperature, Humidity, Luminosity, Microphone, Linear Displacement and Ultrasound sensors |
| Bench | Bench can be added as an optional feature |

LIGHTINUS RMS PACKAGES



24/7 REMOTE MONITORING



Our business model creates recurring monthly revenue opportunities for our distributors as well as significant cost savings and ROI for our clients. Lightinus RMS software and our professional support networks can provide you with the following value-added packages:



Lightinus Basic

Licensing and Communication

Our basic package includes provision of software license for RMS, training for software usage and prebuilt communication hardware (data plans for each country included). Just sign in with your dedicated account and start using the RMS instantly.



Lightinus Advanced

Licensing and Communication + Monitoring

Never worry about the performance of your street lights, using our RMS we can perform this everyday activity in real-time for you.

Services: 24/7 monitoring, detailed daily/weekly/monthly reports, real-time analytics and notifications about system performance and full technical support through a dedicated account manager.



Lightinus Premium

Licensing and Communication + Monitoring + On-Site Maintenance

Completely outsource your lighting management department at affordable price to achieve immediate and long-term cost savings of your lightinus street light network. We monitor and manage your lightinus street lights in real time, 24/7, 365 days.



L I H T I N U S

think ahead

OFFICE@LIGHTINUS.COM

+381-65-66-99-444

+389-71-368-839

www.lightinus.com

VOLTA TECHNOLOGY 0.0.0

Koste Glavinica 2, NP lokal 2; 11000 Belgrade, Serbia
Registration Nr: 20948175; PIB: 108185379

VOLTA Technology

Creating Green Behavior