Omniflow[®]

Smart Cities Solutions Powered by sun and wind energy



Smart IoT Platform OMNILED 07 / 035

Smart IoT Lamppost powered by wind and solar with integrated energy storage and grid connection that enables multiple integrated applications.

With our solution its possible to transform a simple street light into a carbon neutral device that can be used for multiple IoT purposes.

The grid connected unit first uses the available renewable energy. Only if the batteries are depleted it will consume part of the energy from the grid.

With this, Omniflow systems achieve dramatic savings >90% compared with regular lighting and even >60% with standard LED.

Some projects can be done Off-Grid. Please contact us for site evaluation.





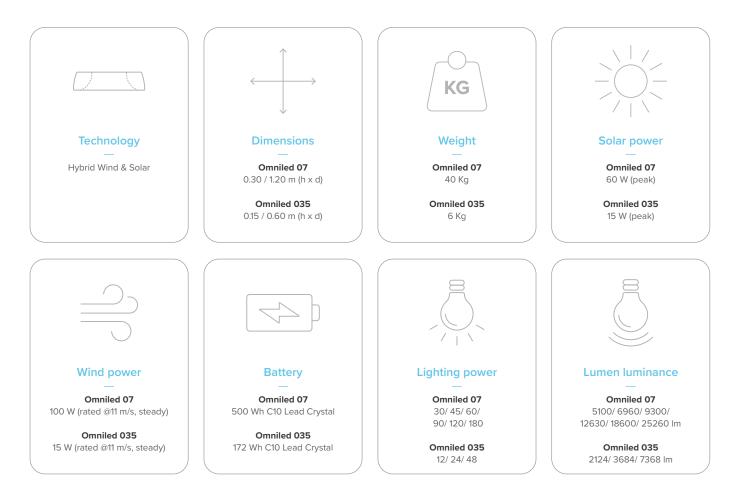
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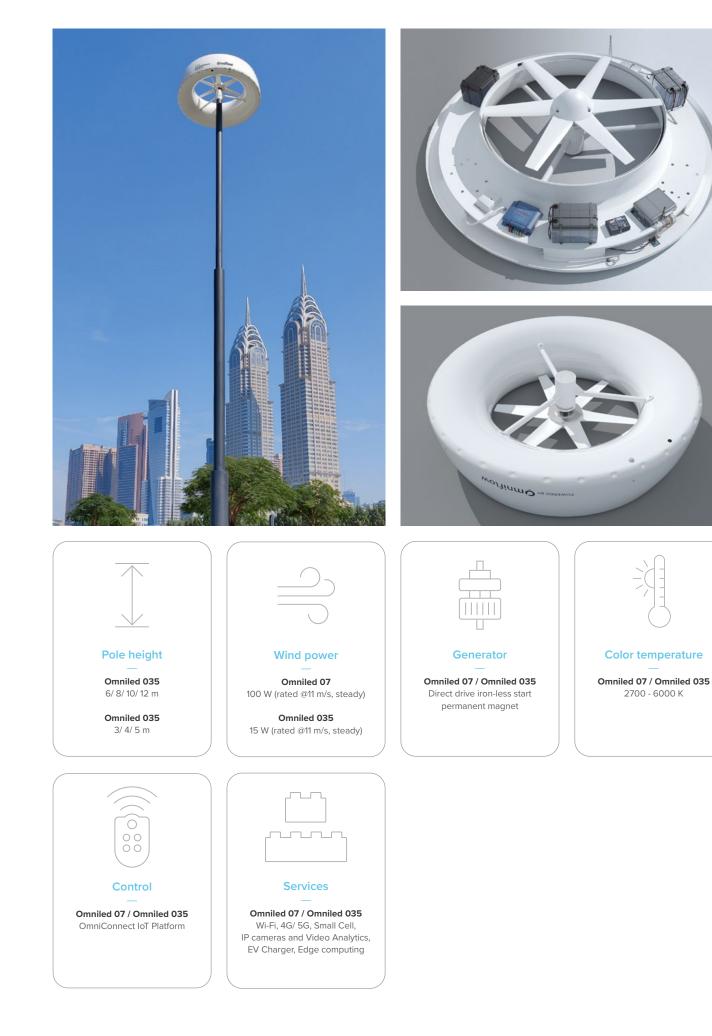
 WORLD ALLIANCE
 by SOLARI

 for EFFICIENT SOLUTIONS
 FOUNDA

by SOLARIMPULSE FOUNDATION







OMNIFLOW SMART POLE



SMART LUMINAIRE

Wind turbine Solar photovoltaic Built-in batteries



INTEGRATED SERVICES

Ultra efficient LED system Computer vision / analytics Conectivity 5G / Wi-fi Telecom: Small Cells Air quality monitoring

OUTDOOR DISPLAY

QLED Advertisement, informative

OUE

OMNICHARGER Integrated EV Charger up to 22 kW QR code payment system

The Omniflow Smart Luminaire is an innovative solution that transforms existing street lights into smart poles, bringing intelligence and sustainability to urban spaces without replacing infrastructure. Using renewable energy, it integrates IoT technology to boost energy efficiency and reduce costs while expanding city connectivity. This versatile luminaire supports multiple applications, from enhancing public safety to monitoring environmental conditions and gathering urban data, making it ideal for the smart city of tomorrow.



Our sustainable Smart luminaire powered by wind and solar with a built-in EV Charging Station is the perfect innovative product to facilitate the availability of charging points. All the elements are located inside the luminaire making it much easier to deploy using existing standard poles and power cables. By adopting this technology, a city with 80,000 street lights could convert 25% into Omniflow Smart Poles, enabling over 90% energy savings and supporting up to 650 EV chargers at 7kW or 1,500 at 3kW.

Visit our website for more details









Solar power

Omniled 07 60 W (peak)

Omniled 035 15 W (peak)



Compliances

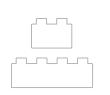
Mobi.e approved Protocol OCPP1.6J ISO15118 IEC61851 MID certified meter



Wind power

Omniled 07 100 W (rated @11 m/s, steady)

Omniled 035 15 W (rated @11 m/s, steady)



Services

Omniled 07 / Omniled 035 Wi-Fi, 4G/ 5G, Small Cell, IP cameras and Video Analytics, Computer vision, Edge computing



EV Charger

Omniled 07 up to 22 kW Type 1, 2 and socketed version Omniled 035 up to 7.2 kW Type 1, 2 and socketed version



Certified manufacture by:



OMNICONNECT Digital Twin Urban Platform IoT Monitoring and Control

OmniConnect is the Omniflow's platform that gives you full visibility and control over your smart urban infrastructure.

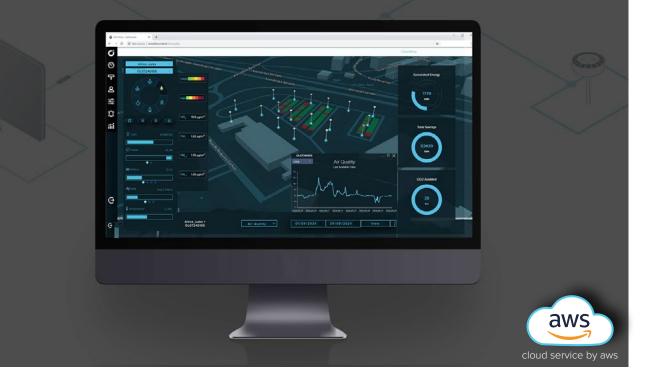
Through a real-time digital twin, you can monitor, manage, and optimize the performance of all Omniflow devices from a single, intuitive interface.

Designed for **seamless integration**, OmniConnect allows you to:

- Visualize your devices' status and key metrics in real-time.
- Remotely control and configure device settings.
- Analyze data to improve operational efficiency and sustainability.

With **Al-embedded driven services**, OmniConnect provides:

Cost Savings: Reduce operational expenses by monitoring and maintaining devices remotely. Improved Decision-Making: Al-powered insights help you make smarter, faster decisions. Simplified Maintenance: Quickly detect and resolve issues before they escalate, reducing downtime.

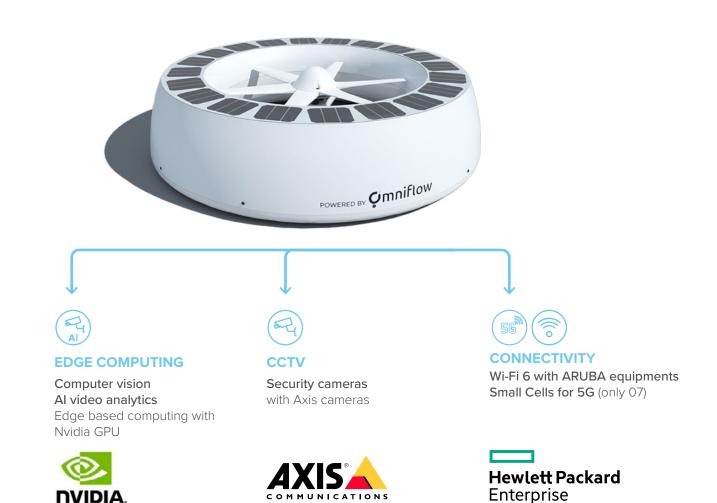




Take full control of your smart urban equipment with OmniConnect and drive efficiency, sustainability, and innovation through the power of AI.

Smart City solutions

Our Omniflow solution is an integrated Smart Lamp Post powered by wind and solar with integrated battery storage. It transforms a regular street light into a sustainable smart infrastructure capable of housing multiple added value services like 5G/LTE Small Cell, public wifi, security cameras, EV charging, IoT sensors/ gateways and even integrated audio for public communication. Our solution has the added benefit of being a resilient solution that can still provide lighting, surveillance and other functionality during grid outages through the integrated battery storage. We can **use existing poles** in most cases because most of the services are integrated inside the Omniflow protective shell in the top so this transformation is much more economical avoiding expensive and time consuming civil works. To transform a simple old light into a smart pole you will only need to change the head of the unit.



Air Quality Monitoring

As cities expand and traffic congestion worsens, the combustion of fossil fuels in vehicles becomes a significant contributor to air pollution. To combat this challenge effectively, **accurate and real-time data on roadside air quality is indispensable.** This is where Omniflow's Air Quality Sensor steps in, providing a comprehensive solution for monitoring pollution caused by the combustion of fossil gases in traffic.



AI/ML Traffic Analytics

Discover how our advanced traffic flow monitoring system revolutionizes urban environments by optimizing vehicle and pedestrian movement, enhancing safety, and transforming city experiences.

Traffic flow with Omniflow utilizes on the edge computer vision technologies, processing data locally for reduced data consumption and privacy protection with no video stream being sent out of the Omniled. Our system offers a multitude of applications for smart cities, including:

- » Optimizing Traffic Signals
- » Enhancing Public Transportation
- » Improving Road Safety
- » Urban Planning
- » Event Management

Powered By Çmniflow

EDGE COMPUTING

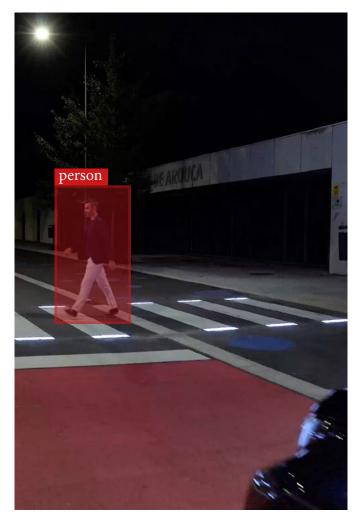
Computer vision / analytics Optical sensors ≈ 95% accurate Connectivity 5G | LTE small cell IoT cloud based control system

Air Quality Sensor

Technical Data		
NO ₂		
0 - 1000 μg/m³		
0,01 µg/m³		
PM, PM, 5 PM, 6		
0 - 500 μg/m³		
0,01 μg/m³		

Edge Computing System

Technical Data	Omniled 035	Omniled 07
Optical sensors	up to 2	up to 4
Resolution	Full	HD
AI Performance	472 GF	LOPS



AI/ML People Counting

Discover how our advanced people counting system revolutionizes urban environments by optimizing traffic, enhancing safety, and transforming city experiences. People counting with Omniflow utilizes on the edge computer vision technologies, processing data locally for reduced data consumption and privacy protection with no video stream being sent out of the Omniled. Our system offers a multitude of applications for smart cities, including:

- » Managing Public Spaces
- » Traffic Management
- » Retail Analytics
- » Security and Safety
- » Urban Planning



Al

COMPUTER VISION

Optical sensors ≈ 95% accurate up to 60 parking spaces per Smart Lamppost

AI/ML Smart Parking

Smart parking with Omniflow utilizes on the edge computer vision technologies, processing data locally for reduced data consumption and privacy protection. Control room operators can easily flag parking offenses like incorrect space occupation through the OmniConnect dashboard, and parking users can easily identify available parking spaces. This system benefits cities by **reducing congestion, improving air quality, and ensuring equitable parking access**. Private parking operators also gain from optimized space utilization and enhanced customer satisfaction.

Real-Time Occupancy

EDGE COMPUTING

Conectivity 5G / Wi-Fi

monitoring and control system

IoT cloud based

- spot by spot
- occupancy rates

Export data for API integration:

- displays
- external platform

Alerts for parking ofenses like:

- no parking areas
- special parking spaces
- EV charger spaces occu-
- pied without use

Data storage up to 3 years

Edge Computing System

Omniled 035	Omniled 07
up to 2	up to 4
Full	HD
472 GF	LOPS

Omniflow Smart Cities Solutions

Tech specs **Omniled 07**

Models

OMNILED Smart Hybrid	Wind & Solar generation with built in battery, optional lighting (see Smart Lighting for options)
Wind Turbine	
Generator	Permanent magnet generator – Axial flux type
Diffuser	Single-element flatback shroud
Rotor	6 blades, reinforced polyamide PAG Dimension: 0.70m diameter
Controller	12VDC Programable PWM
Noise	<28 db(A) at 25m @ 8m/s (very low)
Power	100W rated power (@11 m/s, steady)
Regulation	Turbine stops rotating when system is fully charged, wind is too high or by remote manual shutdown
Solar	
Solar Cell	n-type, monocrystalline Si, >22%Eff @STC
Controller	MPPT Solar Charge Controller
Power	60Wp, 0 degrees Optional: Aditional Mast Integrated Panels from 70Wp to 150Wp
Battery	
Battery Bank	500Wh (3x 12V 14Ah C10 Lead Crystal) Optional: Lithium Battery Pack
Charging	Initial Charging Current 4.2A14.7V/ (25°C)
Cycle Life	Typical 3,392 cycles (@40% DOD, 25°C), Max 6,000+ cycles
Smart Lighting	
Luminaire	15, 30 or 60 LED array Lens: Optical Grade PMMA 5100 lm (30W) 6960 lm (45W) 12630 lm (90W) 18600 lm (120W) 25260 lm (180W) Efficiency 170 lm/W at 350mA (30W) Efficiency 196 lm/W at 125mA (10W) Light Pattern: Type III & Type V Optional: from 2700K - 6000K Light Temperatures
Control	OmniConnect IoT Platform Remote On/Off/Dim with Timer, Time control, Auto Night/Day Operation mode defined by 3 battery voltage levels Auto DIM via integrated infrared motion sensor 2 (Two) additional functionalities independently programmed and triggered by night/day, Time or Sensors events
Lighting Spacing	Indicative spacing (simulation recommended): 35-40m (12m mast) 25-30m (8m mast) 20-25m (6m mast)
Mast	
Height	6m, 8m, 10m or 12m
Material	Galvanized Steel
Paint	C3 or C4 paint scheme (optional) Color: RAL 9010 *only use approved mast designs
Body Shell	
Material	Composite Fiberglass/Resin Transparent to radio waves
Finishing	Marine grade gel coat
Colour	RAL 9010 Optional: Other colours available by request.
Space inside	Can fit 3 (Three) objects up to: 270 x 400 x 50mm Antennas or other electronics. See Optional accessories
OmniBrain	
Energy	Al energy and functionalities management system Connection to: Wind, Solar, Battery, Sensors, LED drivers and extra functionalities.
Light functions	PWM for LED driver control 2 (Two) motion sensor control (infrared*; optical or radar) *1 (One) infrared motion sensor included
Accessory Ports	2 (Two), 12VDC/5A (Max) each
Communications	Communication link via integrated industrial 2G/ 4G modem with included Global SIM card
Built in memory	Stores 5 days hourly based vital data. Voltage (V) Current (A) Rotor Speed (RPM) Temperature (°C)

Dimensions	0.3m height, 1.2m diameter
Weight	40Kg (500Wh batteries & without optionals)
Nominal Voltage	12VDC
Ingress Protection	IP55
Impact Protection	IK08
Mounting	Mounts on 80mm tube 2 (Two) crossed stainless steel M10 bolts for fixing
Transportation	Package dimensions: 1.3m x 1.3m x 0.35m Foam protected Up to 5 units stackable 20 units on 20" container 45 Units on 40" container
Approvals and Standards	CE and UKCA Marking UL/CSA Listed – UL 6142, CSA 22.2, UL 1004-1, UL UL1598 Eye Safety IEC 62471

General

-

Warranty

	45 Units on 40" container
Approvals and Standards	CE and UKCA Marking UL/CSA Listed – UL 6142, CSA 22.2, UL 1004-1, UL 1004-4, UL1598 Eye Safety IEC 62471 Safety IEC 60598, IEC/EN 60529, IEC 62031, UL 8750 CAN/ CSA No. 250.13 IEC 61400-2 Small wind design 2005/88/EC Noise limits ISO 2394:1998(E) Reliability for structures EMC Directive 2014/30/EU – EN 61000-3-2, EN 61000-3-3, EN55015, EN61547-1 Low Voltage Directive (LVD) 2016/95/EC
Grid-Tie (optional)	Input Voltage: 230VAC/50Hz or 110VAC/60Hz Isolation Class: Class II Ingress Protection: IP 67
Operating conditions	Temperature: -20 to 55 °C Max wind speed: 45m/s
Protection	20A 32V fuse
Optional Accessories	IoT integration inside Body Shell for multi-application: - Wifi Ethernet Router AP - Wifi Ethernet Fiberoptic Router AP - LoRA Gateway (under consultation) - Transmission - 46/ 5G Modem, ethernet, fiber, P2P, P2MP - Small Cell integration (under consultation) - Weather station - Environmental sensors (under consultation) - Surveillance cameras: IP modular camera (single dual or quad lens) integrated 1080p WDR Forensic Capture IP PTZ Camera (mast mounted) IP Thermal Camera (mast mounted) Video analytics: Smart parking, perimeter security, smoke and fire detection, audio processing, people counting, heat map **only use approved accessories
Monitoring Software	Remote web management cloud based Open API for Smart City platform integration Realtime reporting and control of device subsystems and accessories AI and machine learning capability User and Administrator Level control Configuration and reading of 92 telemetry parameters Alarms settings Maintenance triggers by proprietary algorithm Single unit and group configuration Multi-unit light synchronization by Time Control function Real time unit test (Shows actual program being used by blinking code on lighting system) Day, Week, Month, Year data report

2-year warranty, Extended EOL support option



· ALL UNITS ARE GRID CONNECTED • FOR OFF-GRID PROJECTS, SITE ENERGY EVALUATION IS NECESSARY, PLEASE CONTACT OMNIFLOW A. OMNIFLOW® IS REGISTERED TRADEMARK IN VARIOUS JURISDICTIONS

B. OMNIFLOW® PRODUCTS ARE PROTECTED BY INDUSTRIAL PATENT AND DESIGN PATENT IN VARIOUS JURISDICTIONS

Tech specs **Omniled 035**

OMNILED Smart Hybrid	Wind & Solar generation with built in battery, optional lighting
	(see Smart Lighting for options)
Wind Turbine	
Generator Diffuser	Permanent magnet generator – Axial flux type Single-element flatback shroud
Rotor	6 blades, reinforced polyamide PAG
KOLOI	Dimension: 0.35m diameter
Controller	12VDC Programable PWM
Noise	<28 db(A) at 25m @ 8m/s (very low)
Power	15W peak power
Regulation	Turbine stops rotating when system is fully charged, wind is too high or by remote manual shutdown
Solar	
Solar Cell	n-type, monocrystalline Si, >22%Eff @STC
Controller	MPPT Solar Charge Controller
Power	15Wp, 0 degrees Optional: Aditional Mast Integrated Panels from 35Wp to 50Wp
Battery	
Battery Bank	172Wh (2x6V 7.2Ah C10 Lead Crystal)
	Optional: Lithium Battery Pack
Charging	Initial Charging Current 4.2A 14.7V/ (25°C)
Cycle Life	Typical 3,392 cycles (@40% DOD, 25°C), Max 6,000+ cycles
Smart Lighting	
Luminaire	12 LED array Lens: Optical Grade PMMA 2124 lm (12W)
	3684 lm (24W) 7368 lm (48W)
	Efficiency 170 lm/W at 350mA (12W) Efficiency 196 lm/W at 125mA (4W)
	Light Pattern: Type III & Type V
	Optional: from 2700K - 6000K Light Temperatures
Control	OmniConnect IoT Platform Remote On/Off/Dim with Timer, Time control, Auto Night/Day Operation mode defined by 3 battery voltage levels Auto DIM via integrated infrared motion sensor 2 (Two) additional functionalities independently programmed
Lighting Spacing	and triggered by night/day, Time or Sensors events Indicative spacing (simulation recommended): 8-12m (3m mast) 10-15m (4m mast)
	12-18m (5m mast)
Mast	
Height	3m, 4m or 5m
Material	Galvanized Steel
Paint	C3 or C4 paint scheme (optional) Color: RAL 9010
	*only use approved mast designs
Body Shell	
Material	Composite Fiberglass/Resin Transparent to radio waves
Finishing	Marine grade gel coat
Colour	RAL 9010 Optional: Other colours available by request
Space inside	Can fit 3 (Three) objects up to: 135 x 200 x 25mm Antennas or other electronics. See Optional accessories
OmniBrain	
Energy	Al energy and functionalities management system Connection to: Wind, Solar, Battery, Sensors, LED drivers and extra functionalities.
Light functions	PWM for LED driver control 2 (Two) motion sensor control (infrared*; optical or radar) *1 (One) infrared motion sensor included
Light functions	r (One) initiated motion sensor included
	2 (Two), 12VDC/5A (Max) each
Accessory Ports Communications	

General

0.15m height, 0.6m diameter 6Kg (172Wh) 12VDC IP55 IK08 Mounts on 45mm tube Fixes with 3 self drilling screws Optional: Pole Adapter for different diameter mounts Package dimensions : 0.65m x 0.65m x 0.175m Foam protected Up to 10 units stackable 295 units on 20° container 594 units on 40° container CE and UKCA Marking UL/CSA Listed – UL 6142, CSA 22.2, UL 1004-1, UL 1004-4, UL1598 Eye Safety IEC 62471 Safety IEC 60598, IEC/EN 60529, IEC 62031, UL 8750 CAN/ CSA No. 250.13 IEC 61400-2 Small wind design 2005/88/EC Noise limits ISO 2394:1998(E) Reliability for structures EMC Directive 2014/30/EU – EN 61000-3-2, EN 61000-3-3, EN55015, EN61547-1 Low Voltage Directive (LVD) 2016/95/EC Input Voltage: 230VAC/50Hz or 110VAC/60Hz Isolation Class: Class II Ingress Protection: IP 67 Rated Power: 30-80W Temperature: -20 to 55 °C
12VDC 12
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IK08 Mounts on 45mm tube Fixes with 3 self drilling screws Optional: Pole Adapter for different diameter mounts Package dimensions : 0.65m x 0.65m x 0.175m Foam protected Up to 10 units stackable 295 units on 20° container 594 units on 40° container CE and UKCA Marking UL/CSA Listed – UL 6142, CSA 22.2, UL 1004-1, UL 1004-4, UL1598 Eye Safety IEC 62471 Safety IEC 60598, IEC/EN 60529, IEC 62031, UL 8750 CAN/ CSA No. 250.13 IEC 61400-2 Small wind design 2005/88/EC Noise limits ISO 2394.1998(E) Reliability for structures EMC Directive 2014/30/EU – EN 61000-3-2, EN 61000-3-3, ENS5015, EN61547-1 Low Voltage Directive (LVD) 2016/95/EC Input Voltage: 230VAC/50Hz or 110VAC/60Hz Isolation Class: Class II Ingress Protection: IP 67 Rated Power: 30-80W
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Temperature: -20 to 55 °C
Max wind speed: 45m/s
20A 32V fuse
IoT integration inside Body Shell for multi-application: -Wifi Ethernet Router AP -Transmission - 4G/ 5G Modem, ethernet, fiber, P2P, P2MP -Environnemental sensors (under consultation) -Surveillance cameras: IP modular camera (single lens) integrated 1080p WDR Forensic Capture IP PTZ Camera (mast mounted) IP Thermal Camera (mast mounted) IP Thermal Camera (mast mounted) Video analytics: Smart parking, perimeter security, smoke ar fire detection, audio processing, people counting, heat map **only use approved accessories
Remote web management cloud based Open API for Smart City platform integration Realtime reporting and control of device subsystems and accessories Al and machine learning capability User and Administrator Level control Configuration and reading of 92 telemetry parameters Alarms settings Maintenance triggers by proprietary algorithm Single unit and group configuration Multi-unit light synchronization by Time Control function Real time unit test (Shows actual program being used by



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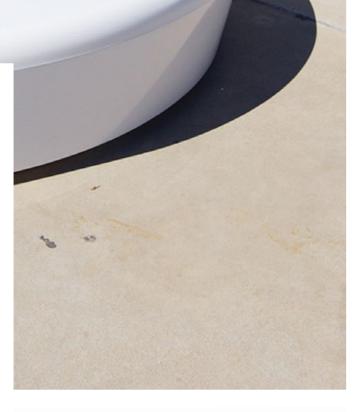
Omnibench

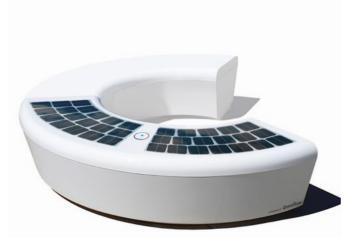
Omnibench is a smart urban furniture designed for public spaces and patented by Omniflow.

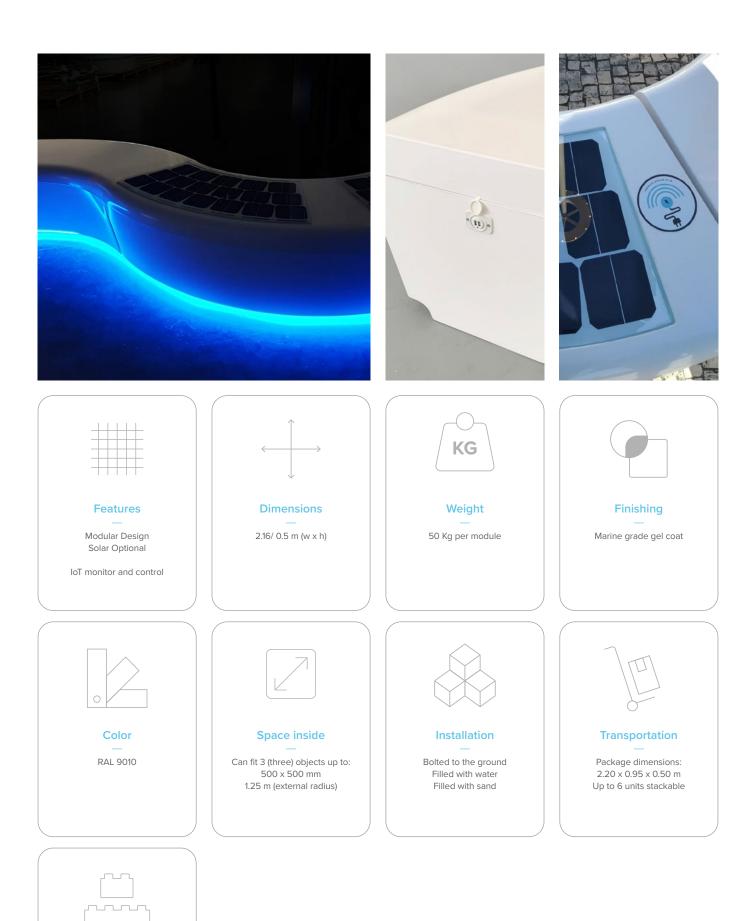
The contemporary design is inspired in the Omniled Smart Lamppost shape and can interact with this product with multiple optional features like, architectural lighting, USB or wireless charging points and electric bicycles docking stations.

The water tight bench can be opened and be used for other technical purposes like the installation of a camouflaged base station for a telecommunications provider or simply more batteries.

The Omnibench can be filled with sand/water or simply bolted to the ground.







Optional

Architectural lighting USB Charger ports Wireless Induction Charger Wi-Fi AP LoRA Gateway Small Cell Basestation

Tech specs Omnibench

Models

Models	
OmniBench	
Solar	Optional
Solar Cell	n-type, monocrystalline Si, >22%Eff @STC
Controller	MPPT Solar Charge Controller
Power	120Wp, 0 degrees
Battery	Optional
Battery Bank	500Wh (3x 12V 14Ah C10 Lead Crystal) Up to 2400Wh (2x 100Ah 12V C10 Lead Crystal)
Charging	Initial Charging Current 4.2A14.7V/ (25°C)
Cycle Life	Typical 3,392 cycles (@40% DOD, 25°C), Max 6,000+ cycles
Body Shell	
Material	Composite Fiberglass/Resin Transparent to radio waves
Finishing	Marine grade gel coat
Color	RAL 9010
Space inside	Can fit 3 (Three) objects up to: 500 x 400 x 300mm
General	
Dimensions	0.5m height, 2.16m maximum length
Weight	50Kg per module
Nominal Voltage	12VDC
Ingress Protection	IP55
Impact Protection	IK08
Mounting	Mounts: Bolted to the ground Fill with water Fill with sand
Transportation	Package dimensions: 2.20m x 0.95m x 0.50m Up to 6 units stackable
Optional Accessories	IoT integration inside Body Shell for multi-application: - Bottom lighting (bench) - E-Bike Charging Station - E-Scooter Charging Station - USB Charger ports - Wireless Charger - Wifi Ethernet Router AP - Wifi Ethernet Fiberoptic Router AP - LoRA Gateway (under consultation) - Transmission - 4G Modem, ethernet, fiber, P2P, P2MP - Small Cell integration (under consultation)



Sustainable Smart City Solutions



Smart Pole

The Omniflow Smart Pole is a comprehensive solution that combines the core Smart Luminaire with additional integrated services and other options like outdoor display and EV charger, transforming traditional streetlights into smart, sustainable infrastructure. This solution allows cities to seamlessly transition urban infrastructure to the digital era.

5G base-stations (small cells)

5G or LTE small cells can be integrated within our products creating the perfect street level solution to deploy sustainable network infrastructure.

Radio and antennas can be integrated both on Omniled 07 and also on Omniflow Smart Bench.

EV Charging

The Omniflow Smart Luminaire with an integrated EV Charger offers a cost-effective, efficient solution to accelerate the transition to electric vehicles. Its primary advantage is leveraging existing cables and transformers, which are already equipped to handle the required power levels, thereby eliminating the need for additional infrastructure investments.

Pedestrian Crosswalk

We designed an intelligent crosswalk system to enhance pedestrian safety in areas with high vehicle and foot traffic. Using advanced technologies like sensors and smart signaling, this system improves safety and helps prevent accidents.

Bus Stop

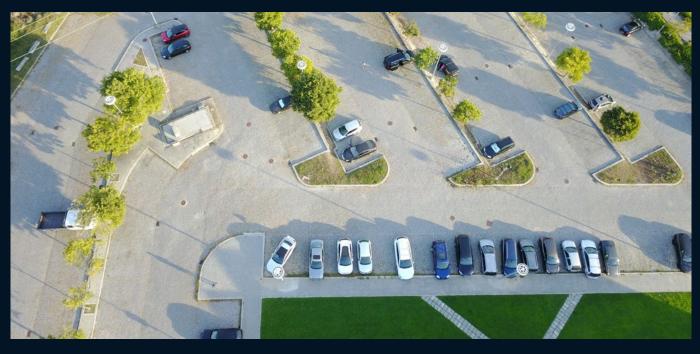
Smart Bus Stop provides the users of public transportation of a better service experience improving safety, information, connectivity and comfort.

The pole integrates the Omniflow smart IoT pole powered by wind and solar that can host, light, information display, Wi-fi AP, Security camera and USB/wireless charging.

Smart Parking

The computer vision is capable of identifying if specific parking places are free or occupied. This information can be processed in the cloud or in the edge.

The metadata can be sent to display, app or directly to the car.



V2X

Events detected by computer vision will be transmitted C-V2X our using a RSU (road side unit) the information can be directly transmitted to the vehicles and pedestrians near the event.

Traffic Monitoring

The integrated IP cameras can be used to stream the video to a control center or video processing can be executed inside our unit to detect vehicles and events.

Edge Computing

Local processing is used to process the raw data coming from our sensors on our local computer. The system is also capable of processing low frame rate video analytics like smart parking. For more demanding applications a local GPU can be used for video analytics, data processing or content on the edge.

Micro Mobility

Our Omniled and Omnibench can be used to charge e-scooters, e-bikes or just parking.

All the electronics and control can be hosted inside of the Smart Bench solution that can also have additional solar power capability to reduce the power consumption from the grid.

Wi-fi Access Point

Public WI-FI access points can be hosted in all of Omniflow products.

Our solution is agnostic in terms of particular vendors used to provide the service.

All of our products are transparent to radio waves, so the AP can be installed inside our weather protective enclosure.

Security

Our systems can host up to 4 IP security cameras completely integrated into the shell of our Omniled solution. The integrated IP cameras can be used to stream the video to a control center or the video processing can be executed inside our unit using the camera processing capacities or edge computing.



Weather/ environmental/ IoT sensors

All this IoT sensors and gateways can be easily integrated in our units where we can offer the power, connectivity and space to host all this services.

Drone Charging/ control Hub

We can retrofit existing lamp posts with Omniflow smart pole powered by wind and solar using the existing poles and avoiding expensive and time consuming civil works.

Every Omniflow smart pole can be upgraded to host the drone charging pad and 5G, so with Omniflow you will be able to create sustainable networks and highways for autonomous drone services.

Smart urban lighting

Our solution achieves a power reduction of more than 90% transforming a simple street light into a carbon neutral object that can be used for multiple IoT purposes in a single infrastructure without the need of creating new ones. We have 2 available models for smart lighting, the Omniled 07 for pole heights of 6-12m and the Omniled 035 for pole heights of 3-5m.

Rail Stations

By retrofitting old lights with highly efficient and beautifully designed Omniflow systems our customers are reaching savings of more than 90% translating into good investments and good ROI.

Information can be displayed on digital signage together with Wi-Fi, Audio and security cameras.

Parking lots

By retrofitting old lights with highly efficient and beautifully designed Omniflow systems our customers are reaching savings of more than 90% translating into good investments and good ROI.

Lights can be dimmed after closing time and motion sensor activated to help the security team to secure the perimeter. We also normally supply in this projects Wi-Fi and security cameras that can be also used for Smart Parking.

Beach/ Crowd monitoring

Omniflow's technology analyses how busy the beach or location is and shows real-time occupancy levels on a local E-ink screen or an app so a user can make an informed decision about where to go.

Audio warnings can also be used.

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