SOLAR AND HYBRID STREET LAMPS

www.rms.com.pl

Hybrid Street Lamps
JUPITER 36LH-6

The **RMS Polska** company is engaged in technical consultancy, designing, production and assembly of complete lighting solutions. We have necessary knowledge and experience of how to design lighting systems bespoke for individual applications.

Electricity generated by PV modules and optionally wind turbine charges batteries through a specialist charge controller. The PV modules also act as the dusk to dawn sensors.
Energy generated during the day is used for power supply of lamp operation at night. When designing the unit we consider local weather, altitude, weight of system, type of soil, wind zone, etc.
The bespoke nature of our designs and installations ensure the selected light will be safe for the environment and provide many years of trouble-free operation.

The market place is full of "universal" street lamps not designed for specify weather and altitude conditions. Only after installation will it be known that the lamps do not work as expected especially during winter season where local weather conditions are hugely influential. For this reason our individual approach to each application ensures our products operate successfully.

During many years of activity in this market we have gained invaluable experience in the design of a variety of energy-efficient and renewable energy solutions.

If you are looking for a professional and responsible company we invite you to use our services.

Specification of Jupiter 36LH-6:

Power LED light source:	**36 W**
Light source:	Power LED diodes
Type of lamp holder:	symmetrical or asymmetrical (depend of requirement)
Illuminance:	approx. 28 lux under the lamp*
Average illuminance:	approx. 10 lux on the area 30m x 6m*
PV modules:	**Made in EU - 2 pcs**
Wind turbine:	**Made in EU - 1 pc**
Batteries:	**Mounted on the top of pole to ensure maximum efficiency. Gel type, maintenance free.**
Lighting time:	**from dusk to down (every season)**
Autonomy:	approx. 5 days
Regulator:	**MPPT with external temperature sensor**
Light source life-time:	60 000 working hours
Efficiency warranty of PV modules:	min. 90% - 12 years min. 80% - 25 years
Standard life time of batteries:	7-8 years
Height of light source:	5,8 m
Height of pole:	6,0 m
Height of wind turbine installation:	7,8 m
Foundation:	450 x 450 x 1800 mm (I wind zone) 450 x 450 x 2100 mm (II i III wind zone)
Materials:	hot-dip galvanised pole, batteries box and components protected against corrosion
Possibility of **automatic power control LED fixtures** depending on battery level. The lamp holder is adjustable inclination angle and swivel arm lock.	

We reserve the right to make changes without prior notice.

*- Parameters are dependent of the angle adjustment and height of light source installation (depending on the wind zone and local site conditions).

Additional options:
- Remote controller with LCD display and radio communication.
- Bluetooth communication module for remote programming and service, with an application on your laptop
- Remote monitoring of GPRS
- Time synchronisation on and off for a group of lamps

Benefits:
- energy efficiency
- long life time
- independence from the electricity grid
- very low cost of operation
- high performance
- high quality components
- reduction of CO_2 emissions
- a higher level of illumination as compared to the conventional lamp
- high resistance to weather conditions and vibration
- individual design for each application and adjustable lighting
- protection against overcharging and deep discharge of batteries
- European product

Typical applications:
lighting of roads and streets; pathways; pedestrian areas; promenades; junctions and crossings; pedestrian crossings; squares; parks; bus stops; sports fields; parks; gardens and other green spaces; cemeteries; private estates; factories; industrial zones; surveillance areas;

NOTE!
It is possible to adapt the system to specific application and make changes in the parameters of the hybrid lamp.
The data in the table shows a sample configuration of the lamp.
Each system is individually designed with specific lighting, photovoltaic panels, wind turbine, battery capacity, operating capacity, period of autonomy, size, control system, etc.

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PN-EN ISO 9001

PCA
Polskie Centrum Akredytacji
CERTYFIKACJA SYSTEMÓW ZARZĄDZANIA
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SOLAR AND HYBRID STREET LAMPS

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Hybrid Street Lamps
JUPITER 24LH-6

The **RMS Polska** company is engaged in technical consultancy, designing, production and assembly of complete lighting solutions. We have necessary knowledge and experience of how to design lighting systems bespoke for individual applications.

Electricity generated by PV modules and optionally wind turbine charges batteries through a specialist charge controller. The PV modules also act as the dusk to dawn sensors.
Energy generated during the day is used for power supply of lamp operation at night. When designing the unit we consider local weather, altitude, weight of system, type of soil, wind zone, etc.
The bespoke nature of our designs and installations ensure the selected light will be safe for the environment and provide many years of trouble-free operation.

The market place is full of "universal" street lamps not designed for specify weather and altitude conditions. Only after installation will it be known that the lamps do not work as expected especially during winter season where local weather conditions are hugely influential. For this reason our individual approach to each application ensures our products operate successfully.

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Specification of Jupiter 24LH-6:

Power LED light source:	**24 W**
Light source:	Power LED diodes
Type of lamp holder:	symmetrical or asymmetrical (depend of requirement)
Illuminance:	approx. 16 lux under the lamp*
Average illuminance:	approx. 6 lux on the area 30m x 6m*
PV modules:	**Made in EU - 2 pcs**
Wind turbine:	**Made in EU - 1 pc**
Batteries:	**Mounted on the top of pole to ensure maximum efficiency. Gel type, maintenance free.**
Lighting time:	**from dusk to down (every season)**
Autonomy:	approx. 5 days
Regulator:	**MPPT with external temperature sensor**
Light source life-time:	60 000 working hours
Efficiency warranty of PV modules:	min. 90% - 12 years min. 80% - 25 years
Standard life time of batteries:	7-8 years
Height of light source:	5,8 m
Height of pole:	6,0 m
Height of wind turbine installation:	7,8 m
Foundation:	450 x 450 x 1800 mm (I, II, III wind zone)
Materials:	hot-dip galvanised pole, batteries box and components protected against corrosion
Possibility of **automatic power control LED fixtures** depending on battery level. The lamp holder is adjustable inclination angle and swivel arm lock.	

Additional options:
- Remote controller with LCD display and radio communication.
- Bluetooth communication module for remote programming and service, with an application on your laptop
- Remote monitoring of GPRS
- Time synchronisation on and off for a group of lamps

Benefits:
- energy efficiency
- long life time
- independence from the electricity grid
- very low cost of operation
- high performance
- high quality components
- reduction of CO_2 emissions
- a higher level of illumination as compared to the conventional lamp
- high resistance to weather conditions and vibration
- individual design for each application and adjustable lighting
- protection against overcharging and deep discharge of batteries
- European product

Typical applications:
lighting of roads and streets; pathways; pedestrian areas; promenades; junctions and crossings; pedestrian crossings; squares; parks; bus stops; sports fields; parks; gardens and other green spaces; cemeteries; private estates; factories; industrial zones; surveillance areas;

NOTE!
It is possible to adapt the system to specific application and make changes in the parameters of the hybrid lamp.
The data in the table shows a sample configuration of the lamp.
Each system is individually designed with specific lighting, photovoltaic panels, wind turbine, battery capacity, operating capacity, period of autonomy, size, control system, etc.

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We reserve the right to make changes without prior notice.

*- Parameters are dependent of the angle adjustment and height of light source installation (depending on the wind zone and local site conditions).

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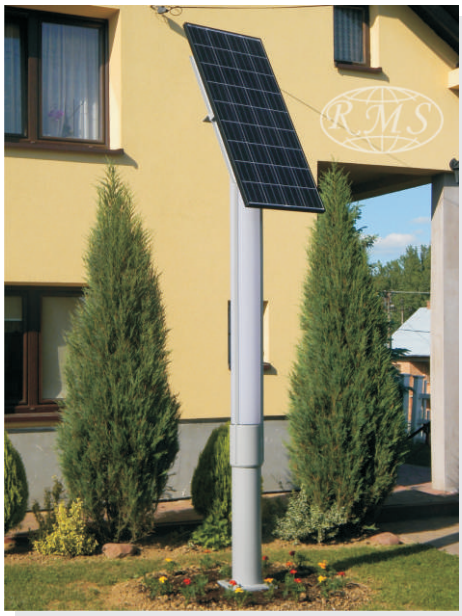

Solar Lamps
JUPITER 8L TP

The **RMS Polska** company is engaged in technical consultancy, designing, production and assembly of complete lighting solutions. We have necessary knowledge and experience of how to design lighting systems bespoke for individual applications.

Solar lamps are a great lighting solution for parks, gardens, small streets, tourist sites, private estates, architectural monuments etc. This series of lamps were designed as a response to market demand and are designed for specific applications. We can make lamps with batteries and regulators inside the pole, such designs give high protection against the influence of third parties such as vandalism.
Jupiter lamps generate delicate light and provide unique atmosphere. As with our other lamps the Jupiter 8L TP is completely independent of grid energy and the energy source is sunlight only. Due to it's self sufficiency the lamp can be used in the area where access to energy network is limited or even impossible.

The luminaire uses the latest LED technology which provides long-life, energy savings, high efficiency, weather proof, temperature and vibration resistance and environmental safety. Compared to standard light sources LEDs produce low heat emissions as most of energy is converted into light rather than heat. The use of lamps with LEDs significantly reduces operating cost during many years of operation.

During many years of activity in this market we have gained invaluable experience in the design of a variety of energy-efficient and renewable energy solutions.

If you are looking for a professional and responsible company we invite you to use our services.

Specification of Jupiter 8L TP:

Power LED light source:	**8 W**
Supply voltage:	12V DC
Light source:	LED diodes
Flux :	640 lm
Colour temperature:	4000K or 5500K
PV module:	**Made in EU - 1 pc**
Batteries:	**Gel type, maintenance free.**
Lighting time:	from dusk to down
Efficiency warranty of PV modules:	min. 90% - 12 years min. 80% - 25 years
Total height of lamp:	3,6 m (with PV module)
Illuminated area:	approx. radius 7,5 m
Materials:	Pole protected against corrosion, polycarbonate tube.
Microprocessor control with dusk sensor.	

Description:
Electrical energy generated from the PV module charge a bank of batteries through a specialised controller. Power is generated during the hours of daylight, stored in the battery bank and used to power the lamp during the night. Solar lamps are very easy to install, they don't need cables and are completely independent of grid.
The bespoke nature of our designs and installations ensure the selected light will be safe for the environment and provide many years of trouble-free operation.

Benefits:
- energy efficiency
- long life time
- independence from the electricity grid
- very low cost of operation
- high performance
- high quality components
- reduction of CO_2 emissions
- high resistance to weather conditions and vibration
- individual design for each application and adjustable lighting
- protection against overcharging and deep discharge of batteries
- European product

Typical applications:
parks; gardens; pathways; squares; small streets; alleys; private estates; car parks; graveyards; tourist sites; architectural monuments

NOTE!
It is possible to adapt the system to specific application and make changes in the parameters of the solar lamp.
The data in the table shows a sample configuration of the lamp.

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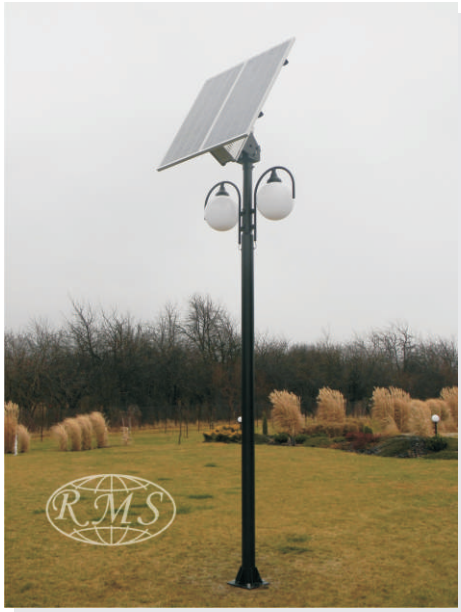

Solar Lamps
JUPITER 2x8L

The **RMS Polska** company is engaged in technical consultancy, designing, production and assembly of complete lighting solutions. We have necessary knowledge and experience of how to design lighting systems bespoke for individual applications.

Solar lamps are a great lighting solution for parks, gardens, small streets, tourist sites, private estates, architectural monuments etc. This series of lamps were designed as a response to market demand and are designed for specific applications.

Jupiter lamps generate delicate light and provide unique atmosphere. As with our other lamps the Jupiter 2x8L is completely independent of grid energy and the energy source is sunlight only. Due to it's self sufficiency the lamp can be used in the area where access to energy network is limited or even impossible.

The luminaire uses the latest LED technology which provides long-life, energy savings, high efficiency, weather proof, temperature and vibration resistance and environmental safety. Compared to standard light sources LEDs produce low heat emissions as most of energy is converted into light rather than heat. The use of lamps with LEDs significantly reduces operating cost during many years of operation.

During many years of activity in this market we have gained invaluable experience in the design of a variety of energy-efficient and renewable energy solutions.

If you are looking for a professional and responsible company we invite you to use our services.

Specification of Jupiter 2x8L:

Power LED light source:	**2 x 8 W**
Supply voltage:	12V DC
Light source:	LED diodes
Flux :	2 x 640 lm
Colour temperature:	4000K or 5500K
PV module:	**Made in EU - 2 pcs**
Batteries:	**Mounted on the top of pole to ensure maximum efficiency. Gel type, maintenance free.**
Lighting time:	from dusk to down
Efficiency warranty of PV modules:	min. 90% - 12 years min. 80% - 25 years
Illuminated area:	approx. radius 11 m
Total height of lamp:	approx. 5,5 m
Height of pole:	approx. 4,5 m
Materials:	hot-dip galvanised pole, batteries box and components protected against corrosion
Microprocessor control with dusk sensor.	

Description:
Electrical energy generated from the PV module charge a bank of batteries through a specialised controller. Power is generated during the hours of daylight, stored in the battery bank and used to power the lamp during the night. Solar lamps are very easy to install, they don't need cables and are completely independent of grid.
The bespoke nature of our designs and installations ensure the selected light will be safe for the environment and provide many years of trouble-free operation.

Benefits:
- energy efficiency
- long life time
- independence from the electricity grid
- very low cost of operation
- high performance
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- individual design for each application and adjustable lighting
- protection against overcharging and deep discharge of batteries
- European product

Typical applications:
parks; gardens; pathways; squares; small streets; alleys; private estates; car parks; graveyards; tourist sites; architectural monuments

NOTE!
It is possible to adapt the system to specific application and make changes in the parameters of the solar lamp.
The data in the table shows a sample configuration of the lamp.

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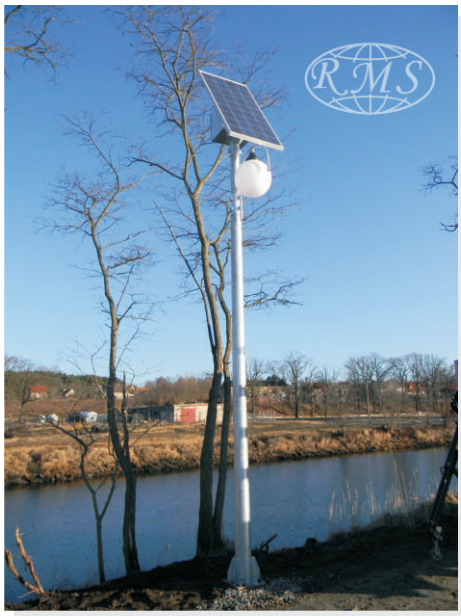

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Specification of Jupiter 8L:

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Supply voltage:	12V DC
Light source:	LED diodes
Flux :	640 lm
Colour temperature:	4000K or 5500K
PV module:	**Made in EU - 1 pcs**
Batteries:	**Mounted on the top of pole to ensure maximum efficiency. Gel type, maintenance free.**
Lighting time:	from dusk to down
Efficiency warranty of PV modules:	min. 90% - 12 years min. 80% - 25 years
Illuminated area:	approx. radius 8 m
Total height of lamp:	approx. 5,5 m
Height of pole:	approx. 4,5 m
Materials:	hot-dip galvanised pole, batteries box and components protected against corrosion
Microprocessor control with dusk sensor.	

Description:
Electrical energy generated from the PV module charge a bank of batteries through a specialised controller. Power is generated during the hours of daylight, stored in the battery bank and used to power the lamp during the night. Solar lamps are very easy to install, they don't need cables and are completely independent of grid.
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