

Available
for purchase
or hire



Off-Grid Solar Lighting & Power Experts

Why Partner With Us



Sustainability is at the heart of our business

Unlike other manufacturers, we have been a solar first business since our inception. Our sole objective is to build the world's cleanest, most advanced, off-grid products; supporting our customers to move away from fossil fuels.



Smart Remote Portal

Our Smart Remote Portal software enables you to manage your lighting and power units remotely, turning assets on and off from anywhere in the world. You can also remotely diagnose if you suspect something isn't right, see product locations, set alarms if products are moved and view carbon and cost saving reports.



Working in partnership with you

We collaborate with every customer, ensuring they have everything they need to succeed. Our experts, like our products, operate 24/7 whenever you need them.



Reduce your carbon emissions

Since 2011, we have been committed to helping our customers, saving them over £14 million in operational costs and preventing over 33 million kgs of CO₂e being emitted.



Save money

Our customers save tens of thousands every year on diesel, refuelling and maintenance by using our renewable solutions. Our units commonly reach cost neutral point within 2 years compared to an equivalent diesel alternative.



Lights that work all winter

Our patented technology makes our lighting towers smart and are the only lights proven to work autonomously, all year round, in any weather, any season, across the UK.



Improved working conditions

Your site operatives enjoy better working conditions due to no fumes, emissions or noise, meaning a reduced impact on their breathing and hearing.



Setup-and-Forget technology

Ours are the only units on the market where software manages battery performance, meaning no need to drain the battery or follow a monthly maintenance program. Our units are truly a Setup-and-Forget technology.



Engineered in Britain

Every product is engineered to the highest standards at our manufacturing facility near Bristol.



Silent nights

Our lights and generators are ideal for urban areas, providing completely silent operation. They prevent disruptions to nearby residents and allow customers to start work earlier and finish later.



ProCharge Battery Energy Storage System

The ProCharge 3-Phase Solar Battery Energy Storage System (BESS) – a cutting-edge solution for clean, quiet, and sustainable temporary power.

Perfectly engineered for construction, infrastructure, and utility projects, this compact, skid-mounted unit integrates the latest in solar and battery storage technology to deliver reliable power with minimal environmental impact.

Features

- The only BESS unit with 12x integrated solar panels
- 12x hydraulically operated 440W solar panels with a total capacity of 5.28kW and actuators to extend the panels out autonomously
- 120 kWh battery capacity
- 45 kVA inverter power, handling generator loads up to 100 kVA
- 3.5 hours charge time from empty (15% - 95% SOC)

Benefits

- The ProCharge's solar array and inverter produce 3X the output power and 3.5X the battery storage of our single-phase system. As such, it is best suited to high-power applications above 20kVA and up to 45kVA, making it ideal for larger, more power-hungry sites and sectors.
- The 3-phase battery energy storage system enables work sites to scale up their sustainable power delivery

depending upon their power requirements. It can connect up to the majority of existing diesel generators, up to 100kVA, to give more flexibility in fleet management. It also offers greater compatibility, as the majority of work sites in the UK are wired up with 3-phase distribution boards.

- Improve the performance of your Stage 5 generator and reduce breakdown risk from running at low loads.
- Monitor and control settings remotely via an integrated micro-controller and GPS, streamlining site operations and reducing downtime.
- Operates quietly, making it perfect for urban environments and night-time projects, minimising disruption in residential areas.
- Estimated annual savings reported on the Kier A417 'Missing Link Project' of £69,000 and 150,000 kgs of CO₂e.
- **Total Cost of Ownership:** Savings over a 7-year period, equate to over **£400,000 per unit**, with cost neutrality achieved in under a year, compared to a diesel generator alone.

Applications

- Large Site Compounds
- Electric Telehandlers
- Small EVs
- Battery-Powered All-Terrain Vehicles
- Mini Diggers and Dumpers
- Scissor Lifts



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ProPower Solar Hybrid Generator

Prolectric's ProPower Hybrid Solar Generator is a revolutionary off-grid sustainable power solution, combining solar power and diesel backup for efficient and eco-friendly energy.

The hybrid power generator has been specially designed to deliver temporary power to the infrastructure, construction and events sectors, amongst others.

Features

- 3.04kW solar panel array with hydraulic extension
- 35 kWh heavy-duty, deep-cycle battery technology
- Mobile trailer mounted or skid based
- Back up generator with 17.5kVA - 22.5kVA peak output (Single-Phase)
- Internal bunded fuel tank - 130L (30-45 hours run-time, load dependent)

Benefits

- The ProPower Solar Hybrid Generators come with a solar array, inverter and single-phase HVO or diesel generator for backup power, ideal for power applications up to 20kVA.
- The ProPower packs the latest solar and battery storage technology into a compact trailer – making it a powerful, clean, and easy to deploy solar battery generator.

Whatever sector you operate in, the ProPower is the ideal low noise, compact solution for powering up to six welfare cabins 24 hours a day, 7 days a week.

- Using this technology, the ProPower can cut fuel usage by up to 90% and in turn reduce carbon emissions and greenhouse gas emissions. As such, the ProPower offers huge CO₂ benefits vs traditional diesel generators.
- The inclination of the ProPower solar panels can be adjusted for optimum performance, leading to an increase in solar generation of up to 15%, adjusted for year round performance.
- The ProPower, running on stored battery power, eliminates noise pollution, improving the working environment for site operatives and making it ideal for residential areas, urban locations and night time projects.
- The ProPower is mounted on a portable trailer, making it faster and easier to setup on smaller compounds.
- Manage your ProPower from anywhere, anytime using our Smart Remote Portals' powerful remote-control functionality.
- **Total Cost of Ownership:** Savings over a 7-year period, equate to over **£88,000 per unit**, with cost neutrality achieved in just 2 years and 4 months compared to a diesel alternative.

Applications

- Welfare cabins and site offices
- Charging of power tools
- Charging of electrical plant equipment
- General onsite temporary power

We enable our customers to make remarkable operational savings.

Save £17,382
annually on fuel,
refuelling, and
maintenance per unit.



ASKAM
CIVIL ENGINEERS

Magnox

NIXON
HIRE

Balfour Beatty

KIER

SPL POWERLINES
AN ENBANK COMPANY

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ProVolt

Portable Battery System

ProVolt is a portable energy solution that helps you reduce your environmental impact and improve your working conditions.

Its robust and compact design makes it an essential tool and versatile BESS, meeting the needs of construction sites. With its cutting-edge technology, this battery-powered storage system offers exceptional power and autonomy, while being environmentally friendly.

Features

- 8 kW continuous power and a peak of 15 kW
- Battery capacity up to 10 kWh
- Recharging time on a 16A socket (3kW) = <4h and on a 32A socket (5kW) = 2h
- Output: 16A single-phase socket, 32A single-phase socket, USB-C socket
- Input: 20A Power Twist, daisy chain 32A, waterproof solar charge socket 75A
- Use time at 500W - 20h, at 1kW - 10h, at 3kW - >3h
- Easily moveable at 130kg
- Up to 6 devices can be daisy chained to give 48 kWh - 60 kWh
- Dimensions: 70 x 65 x 74 cm

Benefits

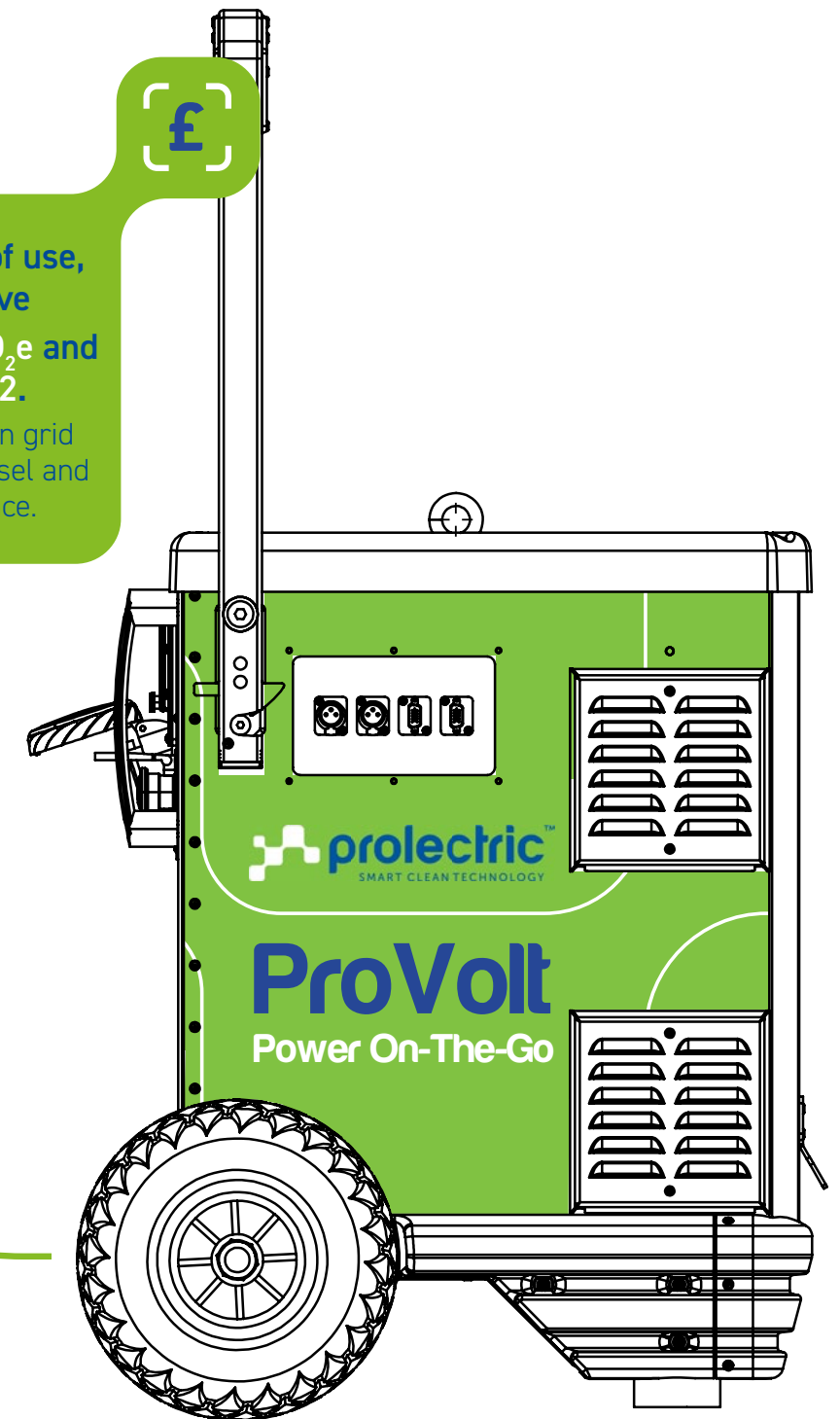
- Energy anywhere, silent and without pollution
- **Working comfort** - No noise, no fumes, portable, lightweight, no maintenance, no cables
- **Cleaner power** - Zero CO₂ emissions when in use, solar rechargeable
- **Versatility** - Indoor and outdoor use, hybridisation with a diesel unit and/or solar panels
- **Robust** - IP54: resistant to dust, mud, water and snow, operating in temperatures from -20°C to +55°C.
- **3 recharging options** - Rapid recharging on mains, using solar energy or at an electric vehicle charging point

Applications

- **Lighting mast:** 14h noise free
- **Single-phase jackhammer** 10.8kg - 19J: 4h
- **Electric drill/core drill on column** - 400mm diameter: Between 3h and 5h
- **WC 11m²:** 24h with ProVolt and solar panels on the roof
- **All-terrain electric articulating boom lift** - 15.72m - remote: Recharge power: 4h & Recharging capacity: 150%
- **Recharging small portable batteries:** Full charge of around 5 batteries

After 5 years of use,
you will save
13 tonnes of CO₂e and
over £8,432.

Savings based on grid
recharging vs diesel and
no maintenance.



ProRXM Hybrid Solar Tower Light

The ProRXM Hybrid is a space-efficient solar hybrid lighting tower designed specifically for Rail and Highway works, fitting in a trackside cess or tight roadside space with the same footprint as a VT1.

Features

- Bright illumination with 4x 60W-180W lights, up to 16,993 sqm light coverage and 118,000 lumens
- 810W slidable solar panels with hydraulic operation
- Battery capability of 11.37 kWh, lasting 4x longer, reducing replacement costs and maintenance visits
- Back up generator with 3.5 kVA (Single-Phase)
- Internal bunded fuel tank - 150L

Benefits

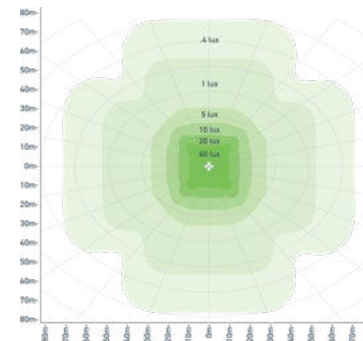
- To avoid damage, the solar panels fold away neatly on the top of the unit and are covered when not in use. Once extended, a hydraulic mechanism tilts the panels diagonally to minimise space, while capturing maximum sunlight.

- The trailer mounted battery bank has sufficient capacity to ensure that even on winter days with 16 hours of darkness, the unit operates consistently and reliably.
- As a solar 1st and diesel 2nd tower light you save costs on fuel and refuelling while simultaneously reducing carbon emissions and fuel usage, avoiding spills. Maintenance is reduced as the generator run-time is remarkably less.
- The ProRXM Hybrid is a portable trailer mounted tower light with a retractable towbar and our Automatic Mast Safety System (PAMS) is a fail-safe system built-in to avoid danger and personnel injury.
- Perfect task lighting for worker safety and site security.

Applications

- Rail and highway works
- Trackside cesses or tight roadside space
- Site welfare compounds and walkways
- Temporary car parks
- Off-grid emergency response

ProRXM Hybrid Light Range



ProRXM Hybrid Area 4x180W Lamps

40 lux to 435 sqm

20 lux to 905 sqm

10 lux to 1647 sqm

5 lux to 2896 sqm

1 lux to 9314 sqm

.4 lux to 16993 sqm



Requires only 1 refuel per year and can achieve a yearly saving of £9,922 and 12,665 kgs of CO₂e compared to a VT1 diesel alternative.



ProRXM Solar Tower Light

The Prolectric ProRXM is a space-efficient and versatile solar lighting tower that offers outstanding fuel savings and emissions reduction in the same footprint as the standard VT1 diesel powered alternative.

Features

- Bright illumination with 4x 60W floodlights, 5,292 sqm light coverage and up to 36,000 lumens
- 810W slidable solar panels with hydraulic operation
- Battery capability of 14.4 kWh, lasting 4x longer, reducing replacement costs and maintenance visits
- Our patented technology ensures the lights work all-night long, year-round - overcoming the need to drain and recharge the batteries regularly

Benefits

- Specifically developed as a compact solar lighting tower that provides completely reliable, bright solar lighting in the same footprint as a standard VT1 diesel generator light.
- The trailer mounted battery bank has sufficient capacity to ensure that even on winter days with 16

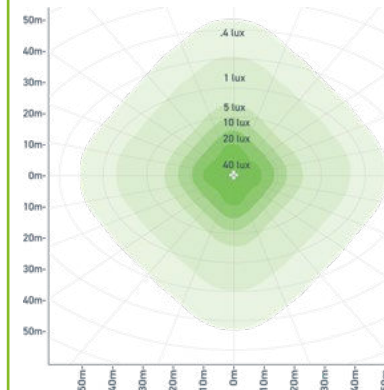
hours of darkness, the unit operates consistently and reliably.

- As a solar-only tower light the ProRXM emits no fumes or greenhouse gas emissions using no fuel thereby saving you on fuel and refuelling costs and avoid spills.
- Each light is fitted with a fail safe system (PAMS) to ensure this towable unit can't be moved with the mast still deployed, removing the risk of injury and damage.
- The ProRXM tower light is perfect for urban, residential or night time projects as there is zero noise.
- Achieve cost neutrality in just **1 year and 8 months** compared to the most common diesel lighting tower in the UK.
- Save **£10,806** annually on fuel, refuelling, and maintenance per unit.

Applications

- Infrastructure, rail and construction projects
- Site welfare compounds and walkways
- Temporary car parks
- Off-grid emergency response
- Outdoor events and festivals

ProRXM Light Range



ProRXM Area 4x60W Lamps

40 lux to 189 sqm
20 lux to 388 sqm
10 lux to 664 sqm
5 lux to 1068 sqm
1 lux to 2978 sqm
.4 lux to 5292 sqm



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**SHOW ONLY
HIRE DEAL**

£140 per week

*Minimum 12 week hire



ProTemp Solar Column Light

The ProTemp is a temporary solar lighting column that delivers powerful and reliable year round lighting without noise or emissions for sites.

Features

- Delivers high-quality LED bright light from a single 20W lamp, 687 sqm light coverage and up to 3,800 lumens
- With a 150W solar panel, the ProTemp is designed for busy areas with higher traffic
- Column mast has a telescopic wind-up arm for easy installation

Benefits

- Prolectric's solar lights offer a flexible alternative to fuel-generator lighting, with clean, low-carbon operation that requires minimal maintenance.
- As a reliable alternative to mains-

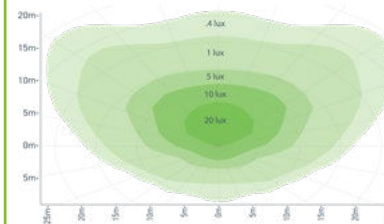
power lighting, the ProTemp dispenses with the need for a contractor and significantly saves installation costs.

- It will continue reliably even through dark, winter days.
- There's no danger of fuel spills, no carbon emissions and no noise.
- Every ProTemp is fitted with a smart PIR to optimise power usage in the unit.
- The motion detection system automatically regulates the light source from full bright to dim mode when the area is entered by a vehicle or person to increase battery autonomy and minimise light pollution.

Applications

- Temporary works
- Car parks and welfare compounds
- Outdoor events and festivals
- Emergency response lighting

ProTemp Light Range



ProTemp Area 1x20W Lamp

20 lux to 32 sqm
10 lux to 106 sqm
5 lux to 194 sqm
1 lux to 468 sqm
.4 lux to 687 sqm



ProTrack Battery Link Lighting

The ProTrack is a rechargeable, battery-powered link lighting system that offers a simple and versatile off-grid solution for illuminating night-time work.

Features

- ProTrack is ideal for lighting long stretches of track, tunnels, bridges and walkways.
- Weighing in at less than 50kg, each ProTrack portable battery unit powers up to 100m of link lighting, with up to 32 hours between rapid recharging.
- The ProTrack offers long lines of bright, LED link lighting powered by the portable battery units.

Benefits

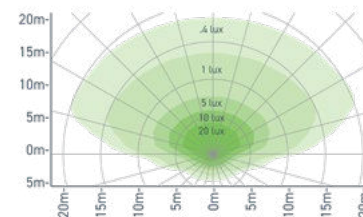
- The latest lithium-ion battery technology for reliable, long operation

- Powers 9 link lights for up to 32 hours
- Easy, rapid recharging in 3-4 hours
- Fully recharge with solar or mains

Applications

- Whether you're covering a long stretch of railroads, catwalks, construction buildings or shipyards, deploying one or more ProTracks is the diesel-free, off-grid solution.
- Each ProTrack system is supplied with 100m of link lighting, comprising of 9 link lights, so bright LED lights can be positioned 10m apart.

ProTrack Light Range



**ProTrack Area
1x15W Lamp
55° Tilt**

**20 lux to 21 sqm
10 lux to 46 sqm
5 lux to 83 sqm
1 lux to 247 sqm
.4 lux to 441 sqm**



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SKANSKA

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**SHOW ONLY
HIRE DEAL**

£35 per week

includes a ProTrack
system - 100m of link
lighting

ST Bollard Solar Bollard

Our ST Solar Bollard Light series is a robust off-grid lighting bollard using the latest solar and LED technology, perfect for streets, car parks and footpaths.

Features

- The All-in-One compact design uses the latest LED technology for bright illumination.
- With next-generation battery charging to optimise power usage.
- Light directed downward, for full concentration of light onto the ground surface.
- We also offer a domed design which has a 90 degree light distribution cut-off - dark sky approved.

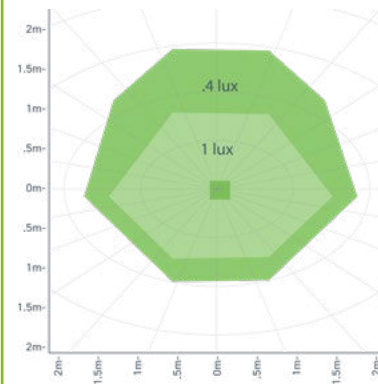
Benefits

- No need for cabling and trenching - reducing interruptions to the public.
- It has an integrated charging unit to optimise battery charging and ensure light levels remain bright, providing a safer environment.
- The vandal-resistant bollard street light has a polycarbonate domed head for added strength and durability.

Applications

- Solar lighting for government infrastructure projects
- Community developments
- Marine projects
- Hospitality and tourism facilities

ST Bollard Light Range



**ST Bollard Area
1x1W Lamp
1m Height**

**1 lux to 6 sqm
.4 lux to 11 sqm**



Show Only Hire Deals

ProTrack Battery Link Lighting



£35 per week

ProTrack system - 100m of link lighting

ProRXM Solar Tower Light



£140 per week

Minimum 12 week hire

Since 2017, Our
Customers Have
Saved Over:



44,580
tonnes of CO₂e



16 million
litres of diesel



£20 million
in operational costs



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