

DUMAREY



PowerSkid

High Energy Battery Storage System



PowerSkid

Cut Power System Costs

The PowerSkid is a second-life battery energy storage system with a power output of up to 240kW. It is specifically designed for mobile and off-grid applications, such as building sites, festivals, events, filming locations and off-grid electric vehicle charging stations. It is also ideal for grid support, renewable storage and energy trading.



**Reduced
embedded
carbon**



**Run large
load on small
3-phase
supply**



**Improved fuel
economy**



**Silent and zero
emissions**



**Improved
voltage and
frequency
stability**





PRODUCT FEATURES



- Second-life battery energy storage system
- Multiple power options:
 - 100kW continuous with peaks up to 170kW
 - 160kW continuous with peaks up to 240kW
- Enables generator downsizing with subsequent fuel and CO₂ savings
- Powerlock source and drain
- 125A + 63A + 32A 3ph outputs
- 2 x 16A 1ph outputs
- 16A 1ph storage connection
- Charge from generator or mains. Island mode operation*
- Touchscreen control
- Remote control and telematics platform
- Fork pockets and 4-point lift
- In-built fire suppression system with external hose connections
- UKCA & CE approvals



* Island mode - Charge and use with no infeed. Ideal for remote work and events

Our clients benefit from emission and noise-free electric power on location, ensuring a cleaner and quieter environment. Additionally, they can schedule generator charging via our smart software, optimising energy use and reducing operational costs.

Each PowerSkid is fitted with second-life battery modules, repurposed from electric vehicles, which significantly reduces the embedded CO₂ associated with the product. This innovative use of second-life batteries not only extends their lifespan but also contributes to substantial CO₂ emission reductions compared to new battery production.

By incorporating these eco-friendly battery modules, the PowerSkid offers a greener alternative for power generation, making it the perfect choice for environmentally conscious users who prioritise sustainability without compromising on performance or reliability.

➤ User Interface

- 7" display complete with a custom interface to provide intuitive and robust operation
- Simple set-up for intuitive configuration
- Power, voltage and frequency data for energy storage system
- Battery parameters: State of charge (%), temperature etc
- Event log management and diagnostics
- Alarms and alerts
- Integrated start / stop based on schedule timing
- Communications: Cloud based telemetry tool using on board 4G router

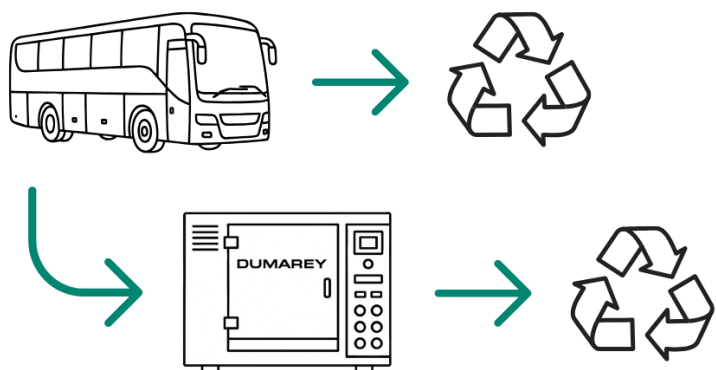


➤ Repurposed EV Battery Technology

Repurposing EV Batteries for Cleaner, Smarter Energy

The PowerSkid utilises second-life batteries, repurposing batteries from electric vehicles. This innovative approach extends battery lifespan, supporting generators and grid connections while significantly reducing CO₂ emissions and saving users on both fuel and costs.

When charging from a diesel generator, the PowerSkid allows the engine to work at its point of maximum efficiency.



When charging from mains power, the system can be set to charge overnight making use of lower price electricity.

EV battery production is a major contributor to CO₂ emissions, often accounting for almost 50% of an electric vehicle's lifetime emissions. Incorporating second-life batteries, the PowerSkid dramatically reduces waste and environmental impact, making it the ideal choice for climate-conscious users seeking sustainable and efficient power solutions.

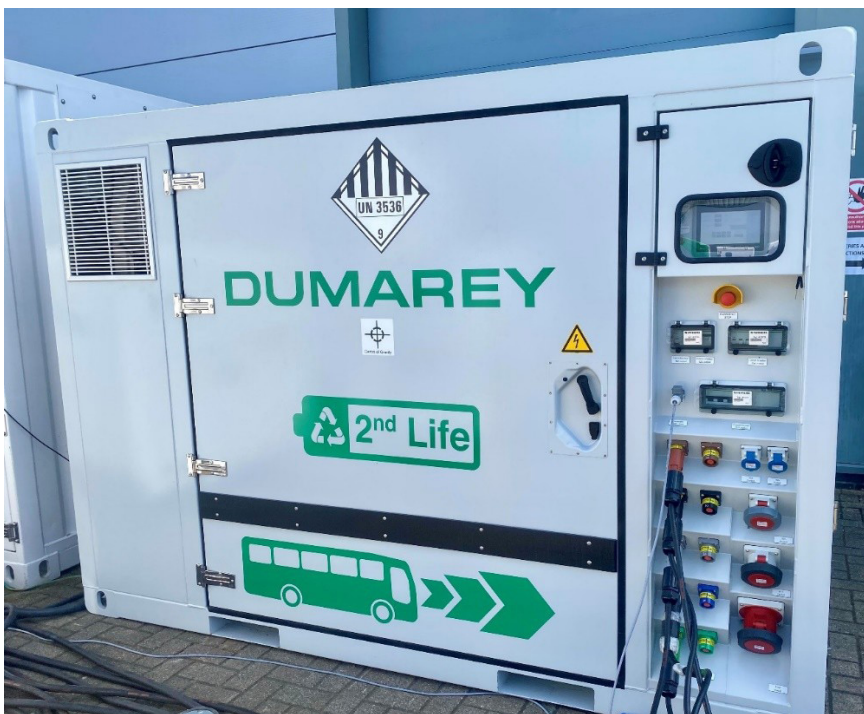
➤ Case Study

PowerSkid at Massive Attack ACT 1.5 Sets a New Benchmark in Low Carbon Live Events

During the 2024 summer festival season, Zenobē deployed Dumarey Green Power's PowerSkid to support Massive Attack's ground-breaking ACT 1.5 event in Bristol – a performance designed to become the lowest carbon largescale live show ever staged. The title "1.5" references the 1.5°C global warming threshold widely considered an unacceptably dangerous level of climate heating.

Zero Emission Transport Support

To further reduce carbon impact, Zenobē supplied eight fully electric buses as part of the shuttle fleet transporting concert goers between the venue and public transport hubs before and after the show. This ensured the entire audience journey maintained the event's low carbon vision.



The Challenge:

Most festivals depend heavily on large diesel generators to power sound systems, lights, video walls, backstage operations, and support infrastructure.

These generators:

- Consume large volumes of diesel
- Emit high quantities of CO₂
- Add continuous background noise

This creates a high emission, high impact power model that ACT 1.5 aimed to eliminate.

The Solution:

The PowerSkid is a second-life battery energy storage system capable of delivering high continuous power output

Designed for flexible, off grid use, it is suitable for live events, construction environments, film production, EV charging, and grid support applications. At ACT 1.5, the PowerSkid delivered silent, emission free electricity, creating a cleaner and more enjoyable environment for audiences, performers and crew.

The PowerSkid enabled noise free, emission free onsite power while supporting smart generator charging schedules through Zenobē's software, reducing fuel consumption and operational costs. It also proved effective as both a temporary and permanent grid support solution.

Second Life Batteries: Reducing Embedded CO₂

Each PowerSkid uses repurposed battery modules taken from electric buses and trucks. Reusing these second life cells significantly reduces embedded CO₂ compared with manufacturing new packs, keeps valuable battery materials in circulation longer, and supports a more circular energy model. This creates a highly sustainable alternative to generator led power systems without compromising performance or reliability.

Environmental & Operational Impact

Festival and concert settings benefit from zero onsite emissions, a much quieter atmosphere, reduced diesel usage and lower overall operating costs. For organisers and clients, the system also improves energy management, provides predictable charging cycles, and reduces logistical complexity.

Key Results:

Emissions Free	Delivered through the PowerSkid's second life battery system
Noise Free Power	Dramatically improving audience and operational experience
Electric Shuffle Fleet	Replaced diesel buses, removing transport related emissions
Reduced Embedded CO₂	Thanks to second life EV battery modules in the PowerSkid
Other Benefits	Lowest carbon large scale live show ever staged



ONE PRODUCT, NUMEROUS APPLICATIONS



Construction

The PowerSkid can provide quiet clean power to construction sites, downsizing or completely eliminating the use of diesel generators.



Car Charging

The PowerSkid can be used to rapidly charge EVs where mains infrastructure is insufficient.



Green Energy

The PowerSkid can store energy from green sources during times of high or excess production. Energy can be used later to reduce grid imports.



Pumping

The PowerSkid is known for its use in industrial pumping, such as concrete, water, waste, and dewatering. These applications are highly dynamic and too can benefit from a reduction in emissions.



Grid Support

The PowerSkid can be used as grid support and energy trading, to assist in levelling the national grid. This can provide an income to the user, even when the PowerSkid is not deployed on a site.



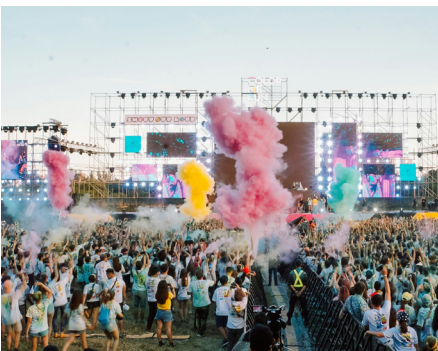
Film & TV

Film and TV require silent, reliable, green power on location. This can be achieved with ease using the PowerSkid, which can provide enough energy to power a whole set.



Welfare Units

The PowerSkid is ideal for powering welfare cabins and other temporary buildings. Generator time can be drastically cut using a hybrid solution, providing silent, emission-free power through the night.



Events & Festivals

Events have increasing focus on cutting emissions. The PowerSkid can charge from a small mains supply overnight, providing significant low-emission power during the day.



Power as a Service

The PowerSkid can be used as part of a PaaS offering. End users rent full batteries which are remotely monitored and swapped for charged systems when necessary. This model helps customers who have no mains power and cannot accept generators.

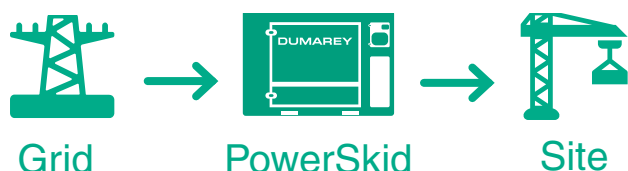
TECHNICAL OVERVIEW



Applications

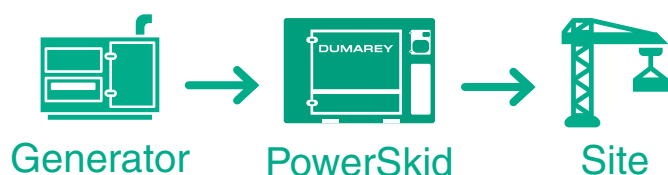
On Grid

PowerSkid connects seamlessly to the grid, charging during periods of low site demand and supplying additional power during peak loads to support the grid when it's needed most.



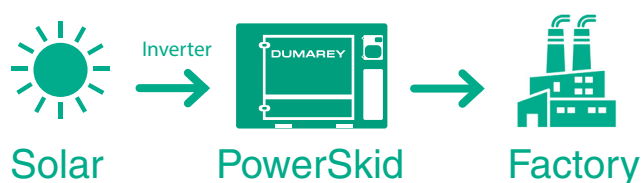
Hybrid

The system can operate in a hybrid setup with a generator, allowing the generator to run at optimal load for less than a third of the time - instead of running inefficiently at low load continuously.



Renewables

PowerSkid can be charged using solar panels or a wind turbine, storing renewable energy for later use when the supply - often intermittent - is no longer sufficient to meet demand.

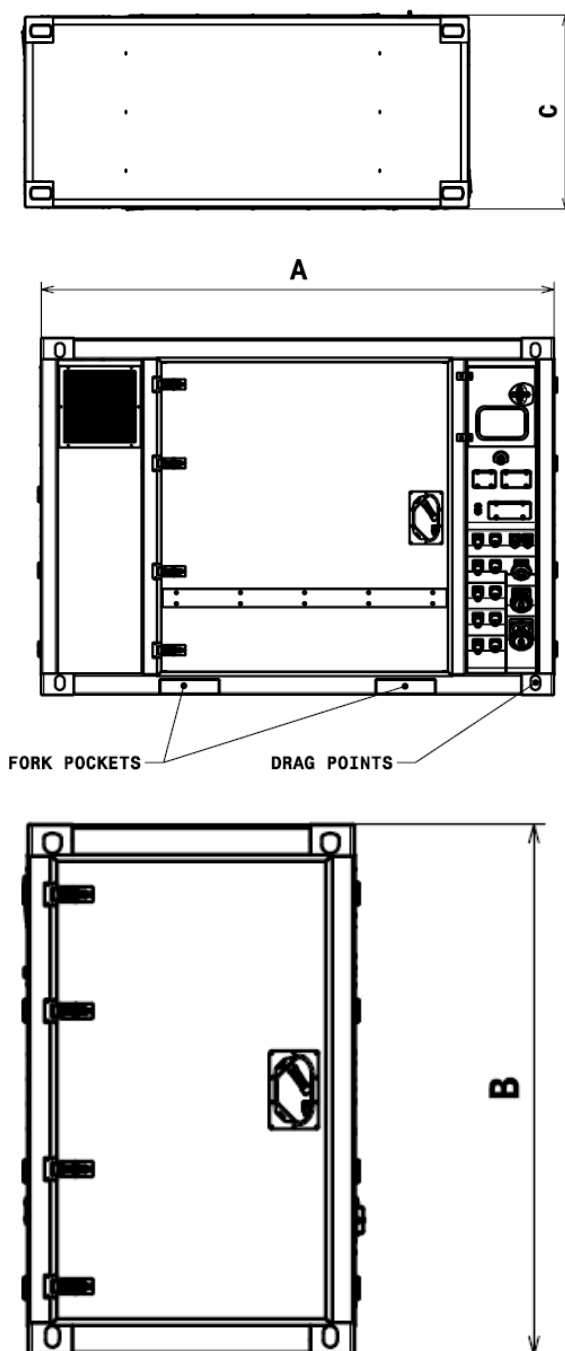


Off Grid

PowerSkid can operate as a standalone island grid when no mains connection is available, making it ideal for short-term events or remote work sites.



Dimensions & Weight



PowerSkid	
A	2,800mm
B	1,950mm
C	1,200mm

➤ Specifications

Parameter	Performance Variant	Ultra Variant
Continuous Power	100kW @ PF1	160kW @ PF1
Overload Power	140kW @ PF1	200kW @ PF1
Peak Power	170kW @ PF1	240kW @ PF1
Nominal Capacity	269kWh	404kWh
Usable Capacity	240kWh	360kWh
Product Warranty	2 years	
Battery Warranty	5 years or 3,000 equivalent full cycles @ full rated power	
Expected Battery Capacity After 10 Years of Normal Duty	80%	
Nominal Grid Voltage	400 / 415 VAC nom	
Nominal Grid Voltage Range	± 10% of VAC nom	
Frequency	50Hz ± 5Hz tolerance on input frequency	
Grid Configuration (on-grid)	3 ~ 400 / 415 VAC (phase to phase) + neutral + PE TN grid	
Grid Configuration (off-grid)	3 ~ 400 / 415 VAC (phase to phase) + neutral + PE coupled TN-S grid	
Max. Short Circuit Level	24kA	
Ambient Temperature	-10°C to +40°C	
Mass	4,200kg	4,980kg



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DUMAREY



Select Plant Hire
Head Office
Bridge Place 1
Anchor Boulevard
Crossways, Dartford
Kent, DA2 6SN

Email: powersolutions@selectplanthire.com
Phone: 01322 732732