

POTAIN®

POTAIN POWER PB SERIES



BUILT FOR SAVING

POTAIN®

Potain Power is a dedicated power solution designed specifically for tower cranes, construction hoists, and other equipment with high startup power requirements.

Engineered around real crane operating conditions, it provides a compact, lightweight, and high-output alternative to traditional diesel generators.

Using advanced high-power lithium battery technology, Potain Power delivers extremely high instantaneous power during startup, lifting, and peak load moments, while requiring only modest energy capacity. This precise matching of power demand allows reliable operation without oversized generators or unnecessary redundancy.

The system enables significant reductions in fuel consumption, CO₂ emissions, and noise by fully replacing large diesel generators. With near-silent operation and zero on-site emissions, it is ideally suited for urban, residential, and other noise- or emission-sensitive construction environments.

In addition to strong performance, Potain Power improves energy efficiency and lowers total cost of ownership through reduced maintenance, fewer service intervals, and the elimination of fuel logistics. Multiple units can be combined to meet varying site demands and integrated with grid or renewable power sources.

High Performance

Features stable C-rate cells supporting up to 462A (320kVA) output, ideal for managing sudden load changes and powering inductive equipment.



Environmentally Friendly

Fewer Greenhouse Gas Emissions
Does not release smoke & soot
The battery cells come with a 5-year warranty
Noise <60dB



Small Size

Compared to diesel generators and energy storage batteries, its compact design makes it much easier to transport and deploy on-site, effectively saving valuable job site space.



High Reliability

IP54 and C4 rated for exceptional durability against salt spray, sand, dust, and environmental extremes.



Multi-Level Safety

Integrated fire suppression at battery and cabinet levels, with flammable gas emission and explosion-proof design for maximum safety.



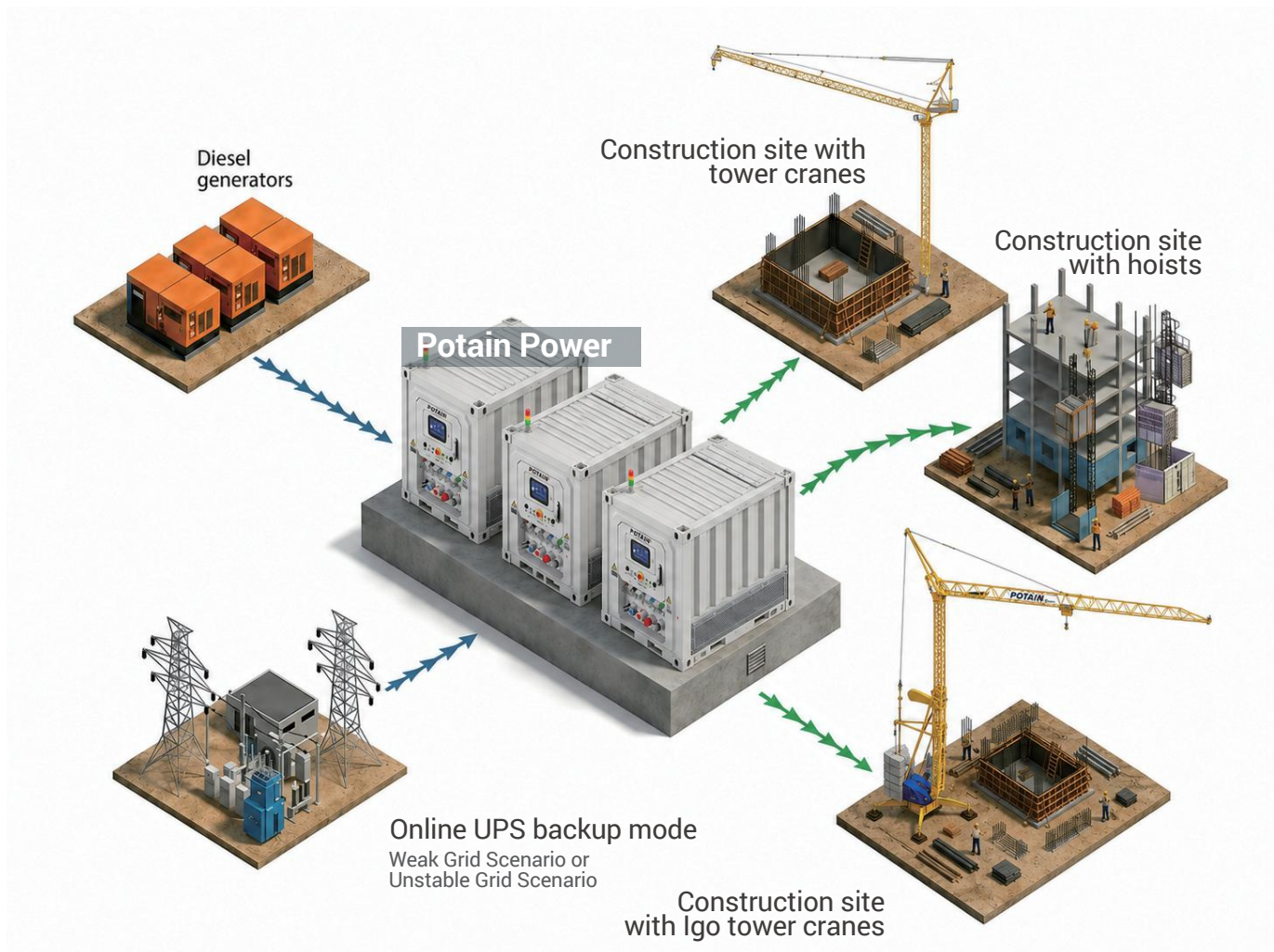
Intelligent Management

Supports remote performance & status monitoring for optimized operation and maintenance.



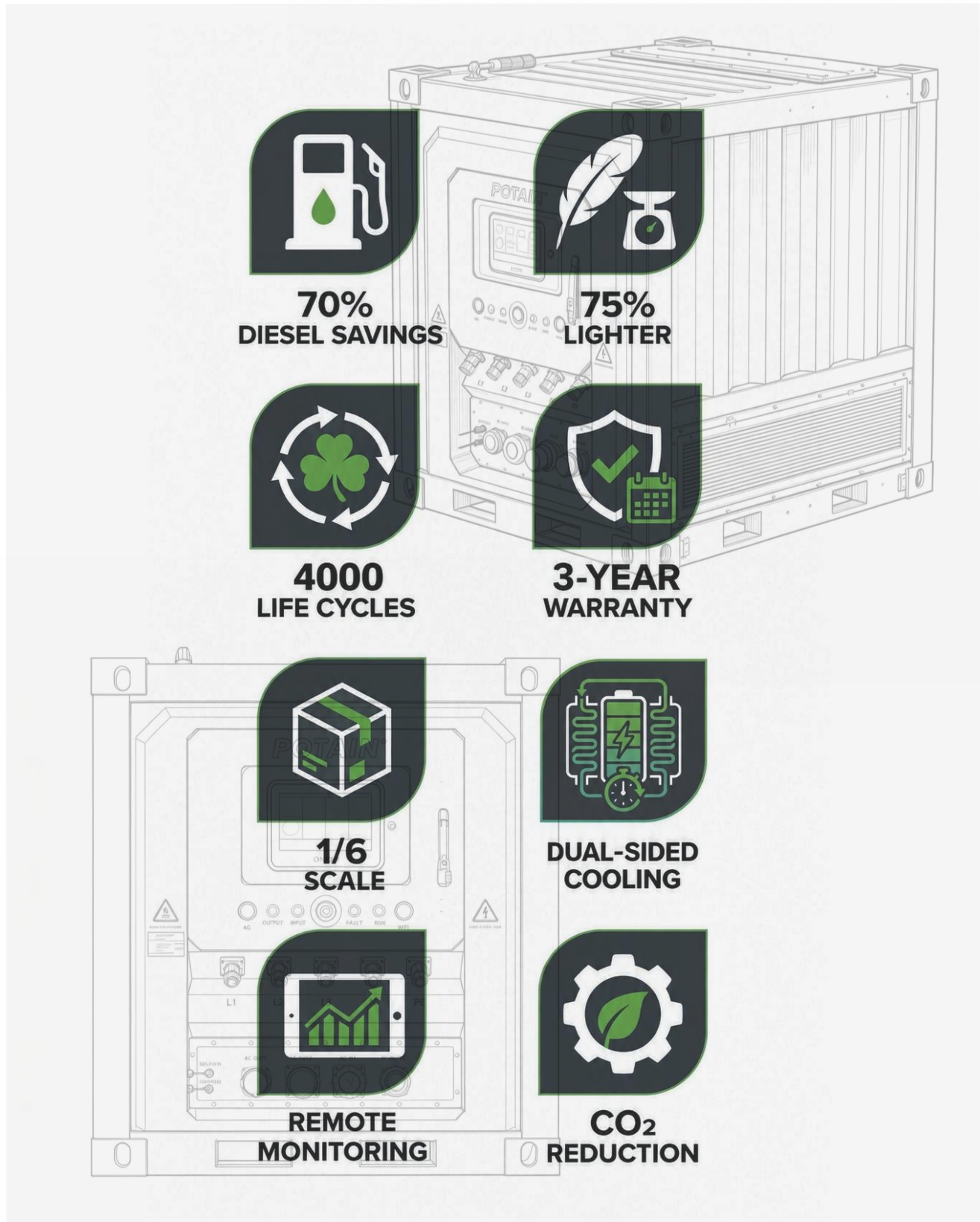
SMALL IN. BIG OUT.

POTAIN®



Potain Power supports both online UPS backup mode and off-grid operating scenarios, delivering reliable power across a wide range of site conditions.

In online UPS backup mode, the system can operate with weak, unstable, or low-capacity grid connections. Even when available grid power is limited, Potain Power delivers strong instantaneous output to meet the tower crane's high startup and peak power demands, ensuring stable, uninterrupted operation without grid supply upgrades.



*A 5-year warranty applies to the battery cells.

Power Supply Comparison for Tower Crane Applications

	Diesel Generator Power	General Energy Storage System (ESS)	Potain Power
Startup Power Capability	High, but requires large oversizing	Limited peak output or requires large capacity	Very high peak output, optimized for crane startup
Matching Tower Crane Load Profile	Poor – oversized for short peaks	Medium – not specifically designed for cranes	Excellent – purpose-built for crane duty cycles
Generator / System Size	Large, heavy, space-consuming	Medium to large	Compact and lightweight
Energy Efficiency	Low at partial load	High	High – energy delivered only when needed
Fuel Consumption	Very high due to low-load operation	Minimal	Minimal – eliminates or greatly reduces diesel use
CO2 Emissions	High	Low to medium (depends on charging source)	Very low / zero on-site emissions
Noise Level	High (continuous engine operation)	Low	Very low / near-silent operation
Operation with Weak Grid	No	Limited	Excellent – boosts weak or unstable grid power
Off-Grid Operation	Requires large generator	Requires large battery capacity	Works with small generator and high peak output
Maintenance Requirements	High (engine, fuel, filters)	Medium	Low – minimal routine maintenance
Installation & Mobility	Complex, heavy logistics	Moderate	Easy to deploy on construction sites
Suitability for Urban / Sensitive Sites	Poor	Good	Excellent
Total Cost of Ownership	High	Medium	Low
Designed Specifically for Tower Cranes	No	No	Yes

PB30

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Input



around
0~30kVA



Consumption



MAX
45 kVA



RATED
30 kVA



Product Model	PB30
Battery Parameters	
Nominal Capacity	30kWh
Cycles	4000 (90%DOD & 70%EOL)
Cell Type	LFP
AC Output Parameters	
Rated Output Power	30kVA
Apparent Output Power (5min)	36kVA
Peak Power (10s)	45kVA
Rated Output Current	43.5A@400V
Max. Output Current (5min)	52A@400V
Max. Peak Current(10s)	65A@400V
Rated Output Voltage	230/400V,3L/N/PE
Frequency	50/60Hz
AC Input Charging Parameters	
Single-phase Charging Power	6.3kW
Single-phase Charging Voltage Range	90- 265V
Single-phase Charging Current	Max.32A
Three-phase Charging Power	Max.30kW
Three-phase Charging Voltage Range	380V/400V(3Phase)
Three-phase Charging Current	Max.45A
Frequency	50/60Hz
General parameters	
Enclosure Rating	IP54
Enclosure Salt Fog Rating	C4
Display	7in
Communication Method	Bluetooth/Wi-Fi/4G/GPS
Cooling Method	Forced air cooling
Operating Temperature	-20~55°C ^[1]
Altitude	<4000m ^[2]
Warranty	3 years ^[3]
Weight	730 kg±20kg
Dimensions (L x W x H, estimate)	1100*800*1500mm

Note: [1] [2] [3] The system automatically adapts its output based on the actual operating environment and working conditions.
Specific warranty terms and conditions are subject to the Potain Power Warranty Policy.
All data are based on Potain standard test procedures, actual performance may vary according to local conditions.

PB135

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Input



around
0~40kVA



Consumption



MAX
160 kVA



RATED
135 kVA



Product Model	PB135
Battery Parameters	
Nominal Capacity	54kWh
Cycles	4000 (90%DOD & 70%EOL)
Cell Type	LFP
AC Output Parameters	
Rated Output Power	135kVA
Apparent Output Power (5min)	145kVA
Peak Power (5s)	160kVA
Rated Output Current	195A@400V / 162.5A@480V
Max. Output Current (5min)	210A@400V / 175A@480V
Max. Peak Current(5s)	231A@400V / 192A@480V
Rated Output Voltage	400V/480V,3L/N/PE
Frequency	50/60Hz
AC Input Charging Parameters	
Single-phase Charging Power	6.6kW(Optional)
Single-phase Charging Voltage Range	85 - 264V
Single-phase Charging Current	Max.32A
Three-phase Charging Power	40kW
Three-phase Charging Voltage Range	260 - 530V (3Phase 3wire)
Three-phase Charging Current	Max.63A
Frequency	50/60Hz
General parameters	
Enclosure Rating	IP54
Enclosure Salt Fog Rating	C4
Display	10in
Communication Method	Dry contact/Bluetooth/Wi-Fi/4G
Cooling Method	Liquid cooling+Air cooling
Operating Temperature	-20~60°C ^[1]
Altitude	<4000m ^[2]
Warranty	3 years ^[3]
Weight	1600±50kg
Dimensions (L x W x H, estimate)	1600*1400*1680mm

Note: [1] [2] [3] The system automatically adapts its output based on the actual operating environment and working conditions.
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PB270

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Input



around
0~40kVA



Consumption



MAX
320 kVA



RATED
270 kVA

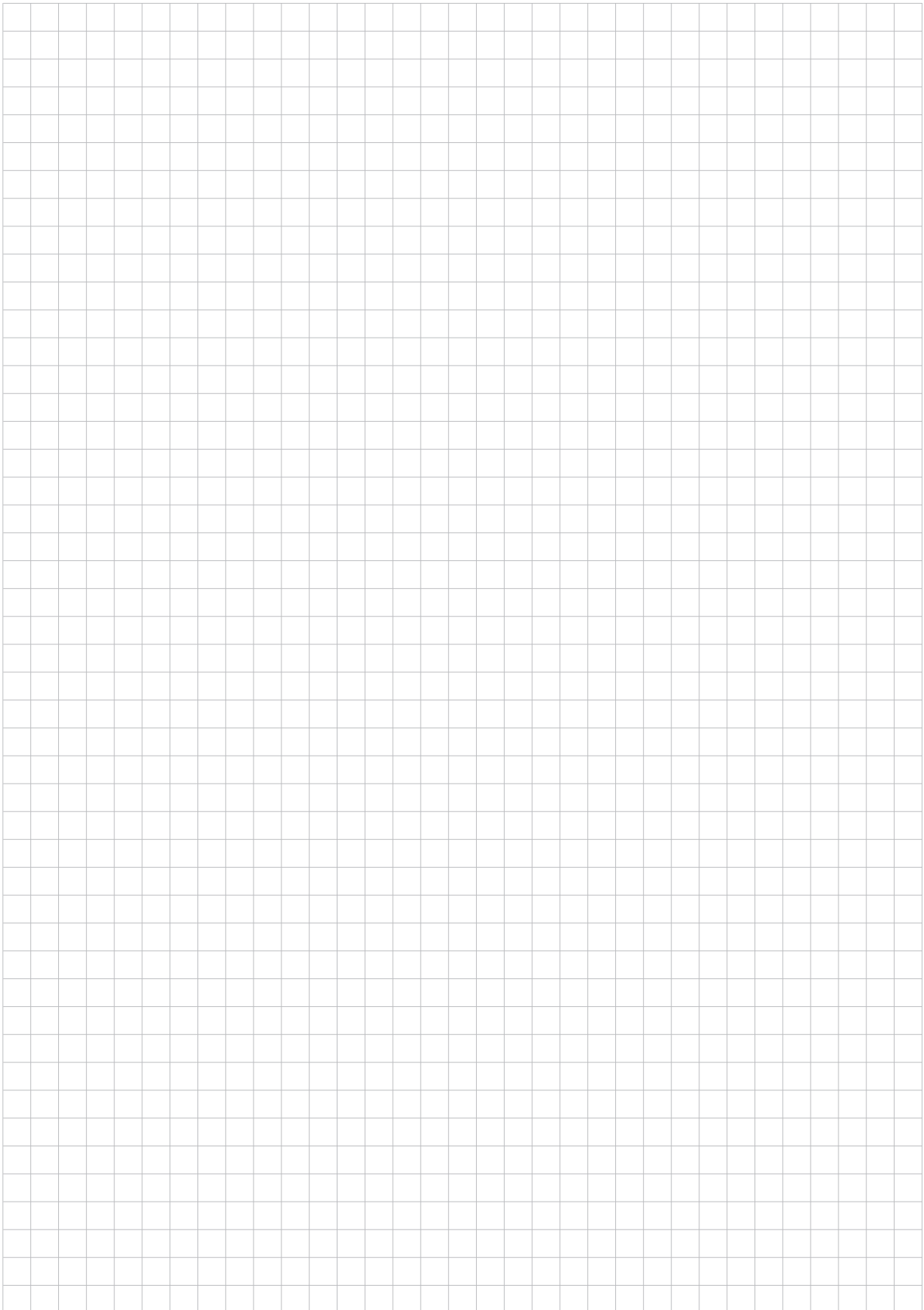


Product Model	PB270
Battery Parameters	
Nominal Capacity	108kWh
Cycles	4000 (90%DOD & 70%EOL)
Cell Type	LFP
AC Output Parameters	
Rated Output Power	270kVA
Apparent Output Power (5min)	290kVA
Peak Power (5s)	320kVA
Rated Output Current	390A@400V / 325A@480V
Max. Output Current (5min)	420A@400V / 350A@480V
Max. Peak Current(5s)	462A@400V / 385A@480V
Rated Output Voltage	400V/480V,3L/N/PE
Frequency	50/60Hz
AC Input Charging Parameters	
Single-phase Charging Power	6.6kW(Optional)
Single-phase Charging Voltage Range	85 - 264V
Single-phase Charging Current	Max.32A
Three-phase Charging Power	Max.40kW
Three-phase Charging Voltage Range	260 - 530V (3Phase 3wire)
Three-phase Charging Current	Max.63A
Frequency	50/60Hz
General parameters	
Enclosure Rating	IP54
Enclosure Salt Fog Rating	C4
Display	10in
Communication Method	Dry contact/Bluetooth/Wi-Fi/4G
Cooling Method	Liquid cooling+Air cooling
Operating Temperature	-20~60°C ^[1]
Altitude	<4000m ^[2]
Warranty	3 years ^[3]
Weight	2200±50kg
Dimensions (L x W x H, estimate)	2050*1500*1650mm

Note: [1] [2] [3] The system automatically adapts its output based on the actual operating environment and working conditions.
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NOTE

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* Prototype only.
Final appearance is subject to minor adjustments.

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