POTAIN®

POTAIN POWER
PA SERIES / PE SERIES



BUILT FOR SAVING

POTAIN®

The 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, the 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, CO_2 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, the 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 high C-rate cells delivering up to 10C continuous discharge, ideal for managing sudden load changes and powering inductive equipment.



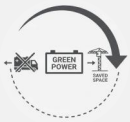
Environmentally Friendly

Fewer Greenhouse Gas Emissions
Do not release smoke & soot
The battery cells come with a 5-year warranty
Noise <45dB



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

IP65 and C5 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.



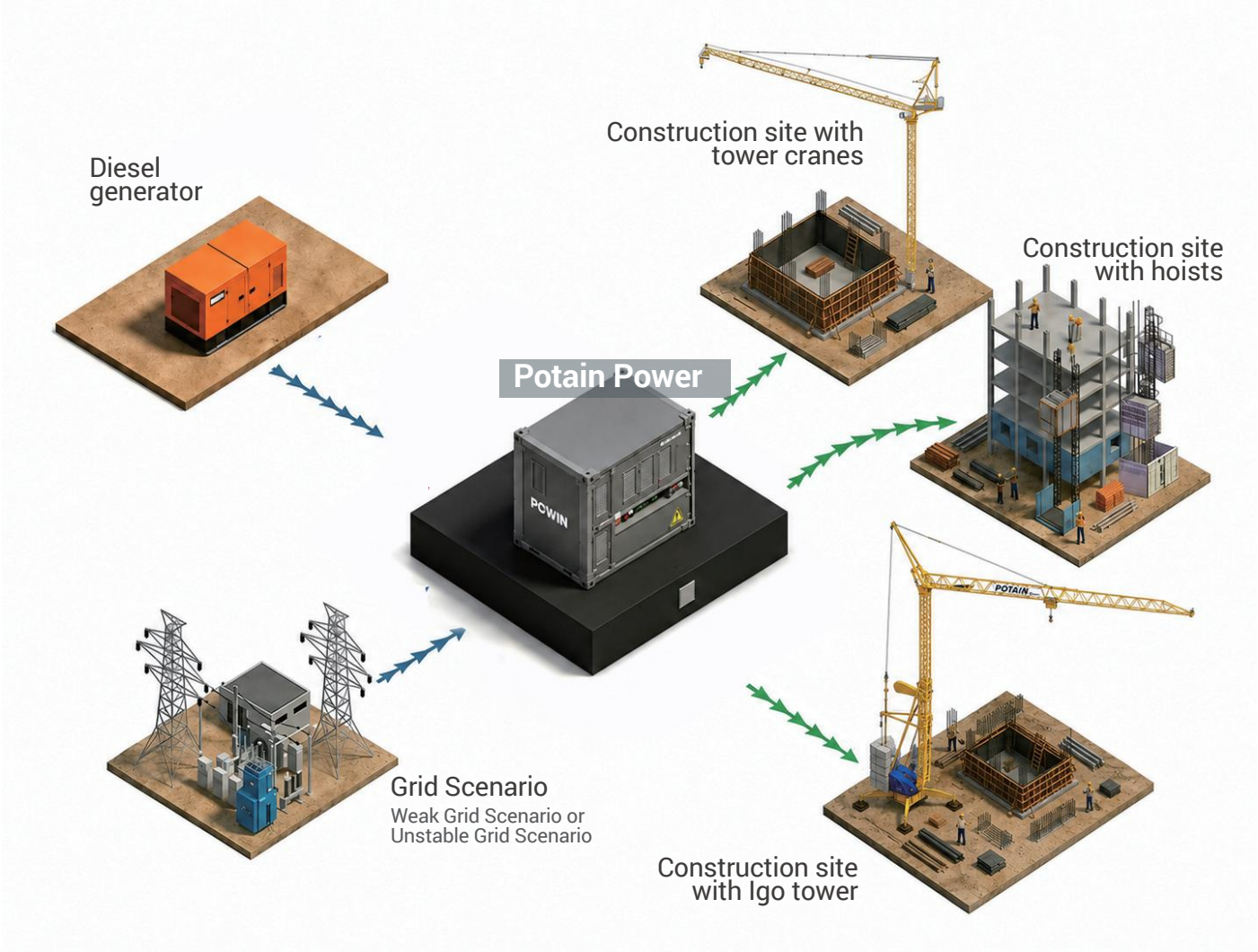
Intelligent Management

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



SMALL IN. BIG OUT.

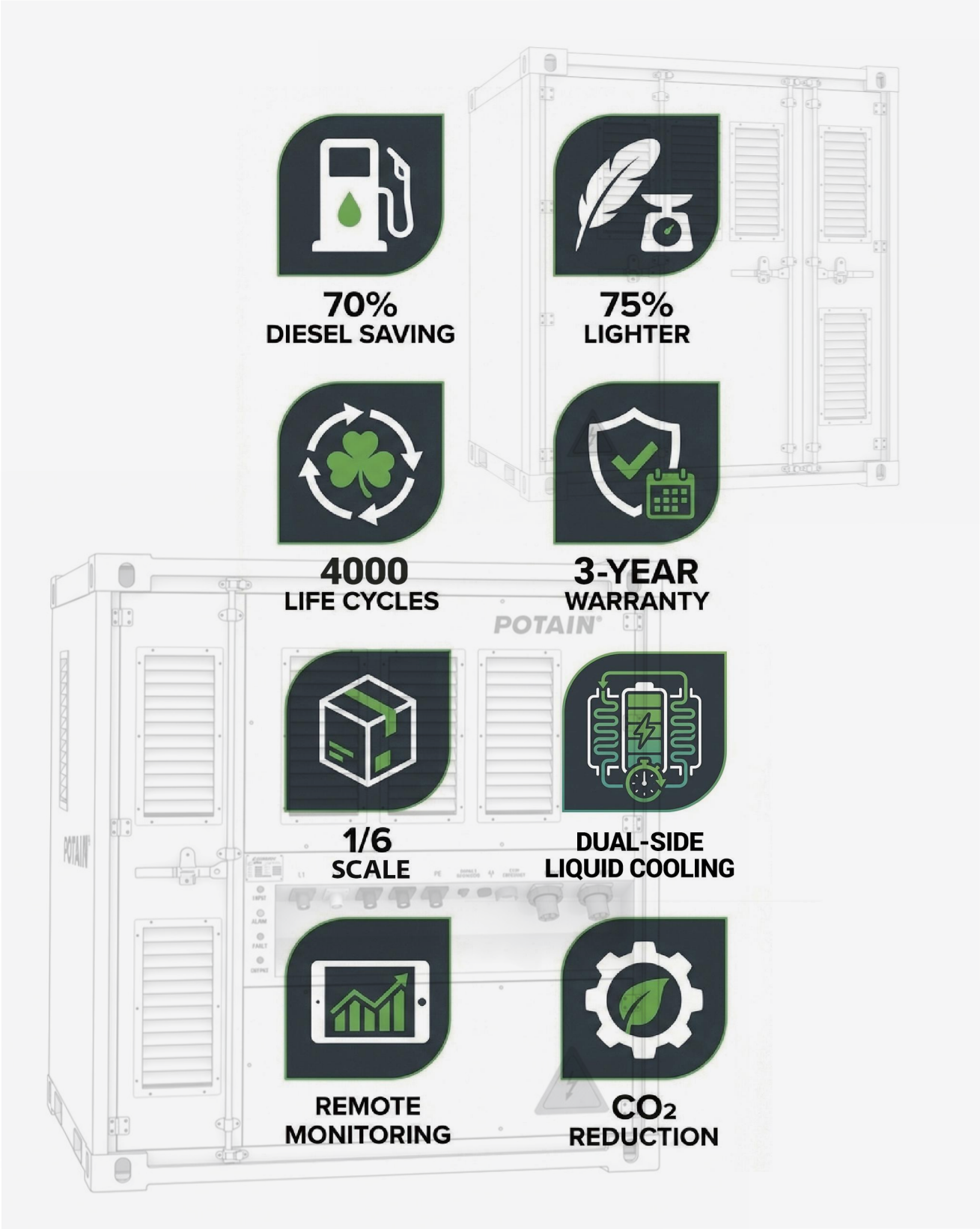
POTAIN®



Potain Power supports both grid-connected and off-grid operating scenario, providing reliable power under a wide range of site conditions.
In grid-connected scenario, the system can operate with weak, unstable, or low-capacity grid connections. Even when the available grid power is limited, the Potain Power delivers strong instantaneous output to meet the tower crane's high startup and peak power demands, ensuring stable and uninterrupted operation without upgrading the grid supply.
In off-grid scenario, the Potain Power can work with only a small-capacity diesel generator. The battery supplies the high peak power required by the crane, while the generator runs at an efficient, steady load to recharge the system. This significantly reduces generator size, diesel consumption, and operating hours, leading to lower fuel costs and substantial reductions in CO_2 emissions.

POTAIN POWER

POTAIN®



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

APPLICATIONS

POTAIN®

Power Supply Comparison for Tower Crane Applications

ParaPerformance Aspect	Diesel Generator Power	General Energy Storage System (ESS)	Crane Dedicated Battery (Potain Battery)
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
CO_2 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	Not applicable	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

PA125

POTAIN®

Input

around
5~30kVA



Consumption

MAX
150 kVA

Recycling

MAX
125 kVA



Specifications	PA125
Input	
Maximum Input Power (3 phase)	5-30kW (Adjustable)
Maximum Input Power (Single phase)	5-10kW (Adjustable)
Maximum Input Current (3 phase)	46A@380V / 43A@400V / 42A@415V
Maximum Input Current (Single phase)	46A@380V / 43A@400V / 42A@415V
Input Voltage Range (3 phase)	360-440V 3-Phase + PE
Input Voltage Range (Single phase)	180-252V
Input Frequency Range	47-63Hz
Input Connectors	63A 5pin CEE*1
Output	
Maximum Output Power (Peak, 1 minute)	150kVA
Maximum Recyclability (Constantly)	125kW
Maximum Output Current (Peak, 1minute)	228A@380V / 217A@400V / 209A@415V
Output Power (Rated)	125kVA/125kW
Output Current (Rated)	190A@380V / 180A@400V / 174A@415V
Rated Output Voltage	380/400/415V 3-Phase+Neutral
Output Frequency	50/60Hz
Surge Protection Device	Class C
Earthing System	TN-S
Output Connectors	400A Powerlocks*1+63A 5pin CEE*1+16A 2pin CEE*3
System Description	
Battery Capacity	32kWh
Battery Cell Life	5-years warranty
Dimension	1285×1535×1250
Weight	1050kg
Ambient Temperature	-20 to +45 ℃
Ingress Protection Level	IP65
Control Method	10" Touchscreen and IoT Remote Monitoring
Derating at Altitude	2000m

PA250

POTAIN®

Input

around
5~30kVA



Consumption

MAX
250 kVA

Recycling

MAX
188 kVA



Specifications	PA250
Input	
Maximum Input Power (3 phase)	5-30kW (Adjustable)
Maximum Input Power (Single phase)	5-10kW (Adjustable)
Maximum Input Current (3 phase)	46A@380V / 43A@400V / 42A@415V
Maximum Input Current (Single phase)	46A@380V / 43A@400V / 42A@415V
Input Voltage Range (3 phase)	360-440V 3-Phase + PE
Input Voltage Range (Single phase)	180-252V
Input Frequency Range	47-63Hz
Input Connectors	63A 5pin CEE*1
Output	
Maximum Output Power (Peak, 1 minute)	250kVA
Maximum Recyclability (Constantly)	188kW
Maximum Output Current (Peak, 1minute)	380A@380V / 361A@400V / 348A@415V
Output Power (Rated)	188kVA/188kW
Output Current (Rated)	286A@380V / 271A@400V / 262A@415V
Rated Output Voltage	380/400/415V 3-Phase+Neutral
Output Frequency	50/60Hz
Surge Protection Device	Class C
Earthing System	TN-S
Output Connectors	800A Powerlocks
System Description	
Battery Capacity	32kWh
Battery Cell Life	5-years warranty
Dimension	1850×1400×2000
Weight	1500kg
Ambient Temperature	-20 to +45℃(Derating above 45℃)
Ingress Protection Level	IP65
Control Method	10" Touchscreen and IoT Remote Monitoring
Derating at Altitude	2000m

PA375PRO

POTAIN®

Input

around
5~60kVA



Consumption

MAX
450 kVA

Recycling

MAX
300 kVA



Specifications	PA375Pro
Input	
Maximum Input Power (3 phase)	5-60kW (Adjustable)
Maximum Input Power (Single phase)**	5-20kW (Adjustable)
Input Current Range (3 phase)	91A@380V/87A@400V/83A@415V
Input Current Range (Single phase)**	91A@380V/87A@400V/83A@415V
Input Voltage Range (3 phase)	360-440V 3-Phase + Neutral + PE
Input Voltage Range (Single phase)**	180-252V
Input Frequency Range	47-63Hz
Input Connectors	63 A 5pin CEE*2
Output	
Maximum Output Power (Peak, 1 minute)	450kVA
Maximum Recyclability (Constantly)	300kW
Maximum Output Current (Peak, 1minute)	684 A@380V
	650 A@400V
	626 A@415V
Ouput Power (Rated)	375kVA/375kW
Rated Output Voltage	380/400/415 V 3-Phase+Neutral
Output Frequency	50/60Hz
Surge Protection Device	Class C
Earthing System	TN-S
Output Connectors	800 A Powerlocks
System Description	
Battery Capacity	65kWh
Battery Cell Life	5-years warranty
Dimension	1850×1400×2000
Weight	2100kg
Ambient Temperature	-20 to +45 °C(Derating above 45 °C)
Ingress Protection Level	IP65
Control Method	10" Touchscreen and IoT Remote Monitoring
Derating at Altitude	2000m

PE500

POTAIN®

Input

around
0~105kVA



Consumption

MAX
600 kVA

Recycling

MAX
500 kVA



Specifications	PE500
Input	
Maximum Input Power (3 phase)	0-105kW (Adjustable)
Max Input Current (3 phase)	160A@380V / 152A@400V / 146A@415V
Input Voltage Range	360-440V 3-Phase + PE (No Neutral)
Input Frequency Range	45-65Hz
Input Connectors	800A BUS BAR
Output	
Max Output Power (Peak, 1 minute)	600kVA
Max Recyclability (Constantly)	500kW
Max Output Current (Peak, 1minute)	912A@380V / 866A@400V / 835A@415V
Ouput Power (Rated)	500kVA
Output Current (Rated)	760A@380V / 722A@400V / 696A@415V
Rated Output Voltage	380/400/415V 3-Phase+N+PE
Output Frequency	50/60Hz
Surge Protection Device	Class C
Earthing System	TN-S
Output Connectors	1200A BUS BAR
System Description	
Battery capacity	497kWh
Battery Cell Life	6000 cycles or 5-years warranty
Dimension	2900×2300×2470mm
Weight	11000kg
Ambient Temperature	-20 to +45℃
Ingress Protection Level	IP54
Control Method	10" Touchscreen & IoT Remote Monitoring
Derating at Altitude	2000m

POTAIN®



Contact Details:

Mail: ContactUs@manitowoc.com

©2026 The Manitowoc Company, Inc.

The information in this document is provided without guarantee. We are constantly improving our products and taking the latest technical advances into account. For this reason, we reserve the right to change the technical data equipment details, and prices of our machines without prior notice. The illustrations may also show optional equipment and accessories. They may not represent the complete standard equipment. The non-binding offers are subject to agreement.