

BESS · POWER SERIES

MODULAR DG HYBRID MOBILE ENERGY STORAGE

Power 250 & Power 300 & Power 500 · 250–500 kVA rated output

Smarter energy. Lower cost. Sustainable future. Hybrid storage that keeps diesel generators in their most efficient operating band, cutting fuel, emissions and total cost of ownership by up to 50%.

250–500 kVA
RATED OUTPUT

153.6–474.2 kWh
RATED ENERGY

250 kVA
PEAK POWER

400 V
VOLTAGE

APPLICATIONS

Construction

Mechanical manufacturing

Mining

Rail transit

Petrochemical

Remote & off-grid sites

POWER 250

250 kVA · 153.6 kWh

POWER 300

300 kVA · 316.4 kWh

POWER 500

500 kVA · 474.2 kWh

250

kVA
RATED OUTPUT

Pairs with the genset and lets it run at its sweet spot: the battery takes the peaks and the diesel burns half the fuel.

— RATED ENERGY

153.6 kWh

— PEAK POWER

250 kVA · 210 s

— RATED OUTPUT

150 kW

— RATED CURRENT

217 A

DG HYBRID · SEMS3000



Power series cabinet · modular battery packs

APPLICATIONS

Construction sites · Mining · Manufacturing · Emergency power · Outdoor events · Concrete batch plants

TECHNICAL SPECIFICATION

BATTERY

Chemistry and energy	LiFePO ₄ , 153.6 kWh
Usable energy	138 kWh at 90% DoD
DC voltage range	600 – 876 V

POWER OUTPUT

Rated output	150 kW
Peak output	250 kVA for 210 s · R load
Voltage, frequency, phase	400 V · 50 Hz, 3P + N + PE
Rated current	217 A
Hold time at rated output	55 min

CHARGING AND SOURCES

AC charge input	150 kW
Generator support	≤400 kVA
Parallel capability	Up to 8 units

PHYSICAL AND ENVIRONMENT

Enclosure	IP54, Intelligent thermal management
Operating temperature	–20 to +50 °C
Noise	<65 dB
Dimensions (L x W x H)	2250 × 1550 × 2200 mm
Weight	≈5,000 kg
Interfaces	3P + N + PE

WORKING MODES

ONE BATTERY. FOUR MODES.

In hybrid mode the generator holds its most efficient 50–80% load band while the battery rides the peaks. Island mode runs the site on battery alone, grid mode charges from the mains, and the EMS switches between them around the clock.

COMPATIBLE DG

≤400 kVA

PARALLEL

Up to 8 units

DG LOAD BAND

50 – 80%

OWNERSHIP COST

Up to –50%

300 **kVA**

RATED OUTPUT

The mid-size Power platform: 316 kWh of hybrid storage that lets one modest genset carry a site with heavy peaks.

— RATED ENERGY

316.4 kWh

— RATED CURRENT

433 A

— OVERLOAD CAPACITY

300 kVA

— VOLTAGE

400 V ±10%

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APPLICATIONS

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TECHNICAL SPECIFICATION

— BATTERY

Energy	316.4 kWh
DC voltage range	400 V ±10%

— POWER OUTPUT

Rated current	433 A
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— CHARGING AND SOURCES

Parallel capability	Up to 8 units
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— PHYSICAL AND ENVIRONMENT

Operating temperature	-20 to +50 °C
Dimensions (L x W x H)	2520 x 2100 x 2400 mm
Weight	≈7.5 t

WORKING MODES

ONE BATTERY. FOUR MODES.

In hybrid mode the generator holds its most efficient 50-80% load band while the battery rides the peaks. Island mode runs the site on battery alone, grid mode charges from the mains, and the EMS switches between them around the clock.

DG LOAD BAND

50 - 80%

PARALLEL

Up to 8 units

SYSTEM EFFICIENCY

90%

OWNERSHIP COST

Up to -50%

500

kVA
RATED OUTPUT

The largest Power platform: 474 kWh of hybrid storage for sites where the peaks would otherwise demand a second genset.

— RATED ENERGY

474.2 kWh

— RATED CURRENT

722 A

— OVERLOAD CAPACITY

500 kVA

— VOLTAGE

400 V ±10%

DG HYBRID · SEMS3000



Power series cabinet · modular battery packs

APPLICATIONS

Construction sites · Mining · Manufacturing · Emergency power · Outdoor events · Concrete batch plants

TECHNICAL SPECIFICATION

— BATTERY

Energy	474.2 kWh
DC voltage range	400 V ±10%

— POWER OUTPUT

Rated current	722 A
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— CHARGING AND SOURCES

Parallel capability	Up to 8 units
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— PHYSICAL AND ENVIRONMENT

Operating temperature	-20 to +50 °C
Dimensions (L x W x H)	2900 x 2300 x 2400 mm
Weight	≤8.5 t

WORKING MODES

ONE BATTERY. FOUR MODES.

In hybrid mode the generator holds its most efficient 50-80% load band while the battery rides the peaks. Island mode runs the site on battery alone, grid mode charges from the mains, and the EMS switches between them around the clock.

DG LOAD BAND

50 - 80%

SYSTEM EFFICIENCY

90%

PARALLEL

Up to 8 units

OWNERSHIP COST

Up to -50%

THE PLATFORM

ONE CABINET · EVERYTHING INSIDE

LFP battery modules

153.6 kWh of lithium-iron-phosphate storage at 90% usable depth of discharge.

Transformer-based PCS

Galvanically isolated output that carries motor-start peaks far above the rated load.

SEMS3000 EMS

12-inch touch HMI with remote monitoring, source scheduling and fleet-level control.

Protected cabinet

IP54 enclosure with integrated fire suppression and intelligent thermal management.

CHOOSE YOUR MODEL

SPECIFICATION	POWER 250	POWER 300	POWER 500
Rated output	250 kVA	300 kVA	500 kVA
Rated energy	153.6 kWh	316.4 kWh	474.2 kWh
Rated current	217 A	433 A	722 A
Parallel capability	Up to 8 units	Up to 8 units	Up to 8 units
Operating temperature	-20 to +50 °C	-20 to +50 °C	-20 to +50 °C
Dimensions (L×W×H)	2250 × 1550 × 2200 mm	2520 × 2100 × 2400 mm	2900 × 2300 × 2400 mm
Weight	≈5,000 kg	≈7.5 t	≤8.5 t
Standards	UN38.3	UN38.3	UN38.3

WHY POWER SERIES

GENERATORS AT THEIR SWEET SPOT

Manages DG output at 50-80% of rated power, so the generator always runs at its lowest fuel-consumption rate.

REDUCED GENERATOR RUNTIME

Absorbs high motor start-up currents and load impacts, extending DG lifespan and reducing failure rates.

LOWER MAINTENANCE COSTS

Fewer generator run-hours and smoother loading decrease maintenance frequency and cost.

RIGHT-SIZED GENERATORS

Mutual power output means no need to overpurchase high-capacity DGs for peak starting currents.

FLEXIBLE MULTI-SOURCE OPERATION

Hybrid, island and grid modes with intelligent switching across generator, battery and grid.

FUEL & EMISSIONS DOWN

Lower fuel consumption and emissions for continuous, efficient and cost-effective site power.

Ready to size your Power Series system?

Sales, after-sales and project support across the North Sea Region: Ireland, Benelux and the Nordics.

info@paikanenorthsea.com