

BESS · SPIKE SERIES

HIGH-POWER INDUCTIVE LOAD MOBILE ENERGY STORAGE

Spike 135 & Spike 270 · 135-270 kVA rated output

Designed for tower cranes, hoists, placing booms, pile drivers, mining equipment and construction sites: reliable power for heavy-duty operations and demanding industrial environments.

135-270 kVA
RATED OUTPUT

54-108 kWh
RATED ENERGY

160-320 kVA
PEAK (10 S)

<15 ms
RESPONSE

APPLICATIONS

Tower cranes

Hoists

Placing booms

Pile drivers

Mining equipment

Construction sites

SPIKE 135

135 kVA · 54 kWh

SPIKE 270

270 kVA · 108 kWh

135 kVA

RATED OUTPUT

Replaces the site genset for tower cranes and hoists: the battery absorbs the motor inrush a diesel would be oversized for.

RATED ENERGY

54 kWh

RATED CURRENT

195 A @ 400 V

PEAK (10 S)

160 kVA

RESPONSE

<15 ms

SIC + LIQUID COOLING



Spike series containerised enclosure

APPLICATIONS

Tower cranes · Hoists · Placing booms · Static pile drivers · DTH drills · Mine elevators

TECHNICAL SPECIFICATION

BATTERY

Energy	54 kWh
Usable energy	49 kWh at 90% DoD
Cycle life	4,000 · 90% DoD & 70% EOL
DC voltage range	728 – 949 V

POWER OUTPUT

Rated output	135 kVA
Peak output	160 kVA
Voltage, frequency, phase	400 / 480 V · 3L/N/PE, 50 / 60 Hz
Rated current	195 A @ 400 V · 162.5 A @ 480 V
Hold time at rated output	22 min

CHARGING AND SOURCES

AC charge input	Max. 30 kW
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PHYSICAL AND ENVIRONMENT

Enclosure	IP54 · C4 salt-fog rating, Liquid cooling
Operating temperature	–20 to +60 °C
Dimensions (L x W x H)	1550 x 1300 x 1600 mm
Weight	1,550 kg ±50
Interfaces	CEE 32 A · CEE 63 A (3P5W) · Powerlock 400 A
Warranty	5 years

THE INRUSH

PEAKS ARE THE POINT.

Lifting motors draw multiples of their rated current at start. The Spike 135 answers with 160 kVA for ten seconds and up to 231 A peak, then settles back to a steady 135 kVA, recharging from a small feed between lifts.

PEAK (10 S)

160 kVA

5-MIN OUTPUT

145 kVA

PEAK CURRENT

231 A @ 400 V

RECHARGE

30 kW · 3-ph

270 **kVA**

RATED OUTPUT

Twin-crane sites and heavy lifting gear on one battery: 320 kVA of ten-second headroom without a big diesel on standby.

RATED ENERGY

108 kWh

RATED CURRENT

390 A @ 400 V

PEAK (10 S)

320 kVA

RESPONSE

<15 ms

SIC + LIQUID COOLING



Spike series containerised enclosure

APPLICATIONS

Tower cranes · Hoists · Placing booms · Static pile drivers · DTH drills · Mine elevators

TECHNICAL SPECIFICATION

BATTERY

Energy	108 kWh
Usable energy	97 kWh at 90% DoD
Cycle life	4,000 · 90% DoD & 70% EOL
DC voltage range	728 – 949 V

POWER OUTPUT

Rated output	270 kVA
Peak output	320 kVA
Voltage, frequency, phase	400 / 480 V · 3L/N/PE, 50 / 60 Hz
Rated current	390 A @ 400 V · 325 A @ 480 V
Hold time at rated output	22 min

CHARGING AND SOURCES

AC charge input	Max. 40 kW
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PHYSICAL AND ENVIRONMENT

Enclosure	IP54 · C4 salt-fog rating, Liquid cooling
Operating temperature	–20 to +60 °C
Dimensions (L x W x H)	1550 x 2050 x 1600 mm
Weight	2,200 kg ±50
Interfaces	CEE 32 A · CEE 63 A (3P5W) · Powerlock 630 A
Warranty	5 years

THE INRUSH

PEAKS ARE THE POINT.

Lifting motors draw multiples of their rated current at start. The Spike 270 answers with 320 kVA for ten seconds and up to 462 A peak, then settles back to a steady 270 kVA, recharging from a small feed between lifts.

PEAK (10 S)

320 kVA

5-MIN OUTPUT

290 kVA

PEAK CURRENT

462 A @ 400 V

RECHARGE

40 kW · 3-ph

THE PLATFORM

ONE CABINET · EVERYTHING INSIDE

835 V battery

High-voltage pack rated for 4,000 cycles at 90% depth of discharge and 70% end-of-life capacity.

3rd-gen SiC inverter

<15 ms response with constant P/I/V control and Black Start capability for standalone operation.

Dual-side liquid cooling

Variable-frequency cooling holds cell temperature spread within 3 °C, extending cell life by up to 30%.

Site-proof connections

CEE and Powerlock interfaces in an IP54 enclosure with a C4 salt-fog rating for coastal sites.

CHOOSE YOUR MODEL

SPECIFICATION	SPIKE 135	SPIKE 270
Rated output	135 kVA	270 kVA
Rated energy	54 kWh	108 kWh
Three-phase power	Max. 30 kW	Max. 40 kW
Three-phase voltage / current	260 – 530 V (3P3W) · max. 40 A	260 – 530 V (3P3W) · max. 63 A
Apparent power (5 min)	145 kVA	290 kVA
Peak power (10 s)	160 kVA	320 kVA
Rated output current	195 A @ 400 V · 162.5 A @ 480 V	390 A @ 400 V · 325 A @ 480 V
Max. output current (5 min)	210 A @ 400 V · 175 A @ 480 V	420 A @ 400 V · 350 A @ 480 V
Max. peak current	231 A @ 400 V · 192 A @ 480 V	462 A @ 400 V · 385 A @ 480 V
Dimensions (L×W×H)	1550 × 1300 × 1600 mm	1550 × 2050 × 1600 mm

WHY SPIKE SERIES

SAFE, STABLE, EFFICIENT

3rd-generation SiC inverter with <15 ms response, constant P/I/V control and Black Start reliability.

FAST & SMART MANAGEMENT

Plug-and-play installation, easy on-site maintenance and smart monitoring to optimise reliability.

UP TO 462 A OUTPUT

Compact for sites with strict space and load-bearing constraints, while powering ultra-high-power lifting equipment.

ENHANCED ON-SITE SAFETY

Reduces reliance on diesel power and lowers diesel fire risks, with built-in multi-level protections for personnel and equipment.

DUAL-SIDE LIQUID COOLING

Advanced variable-frequency liquid cooling keeps cell temperature differences within 3°C and extends cell lifespan by up to 30%.

MINIMISED CARBON FOOTPRINT

Achieves lower emissions, advancing sustainable operations to support ESG goals.

Ready to size your Spike Series system?

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

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