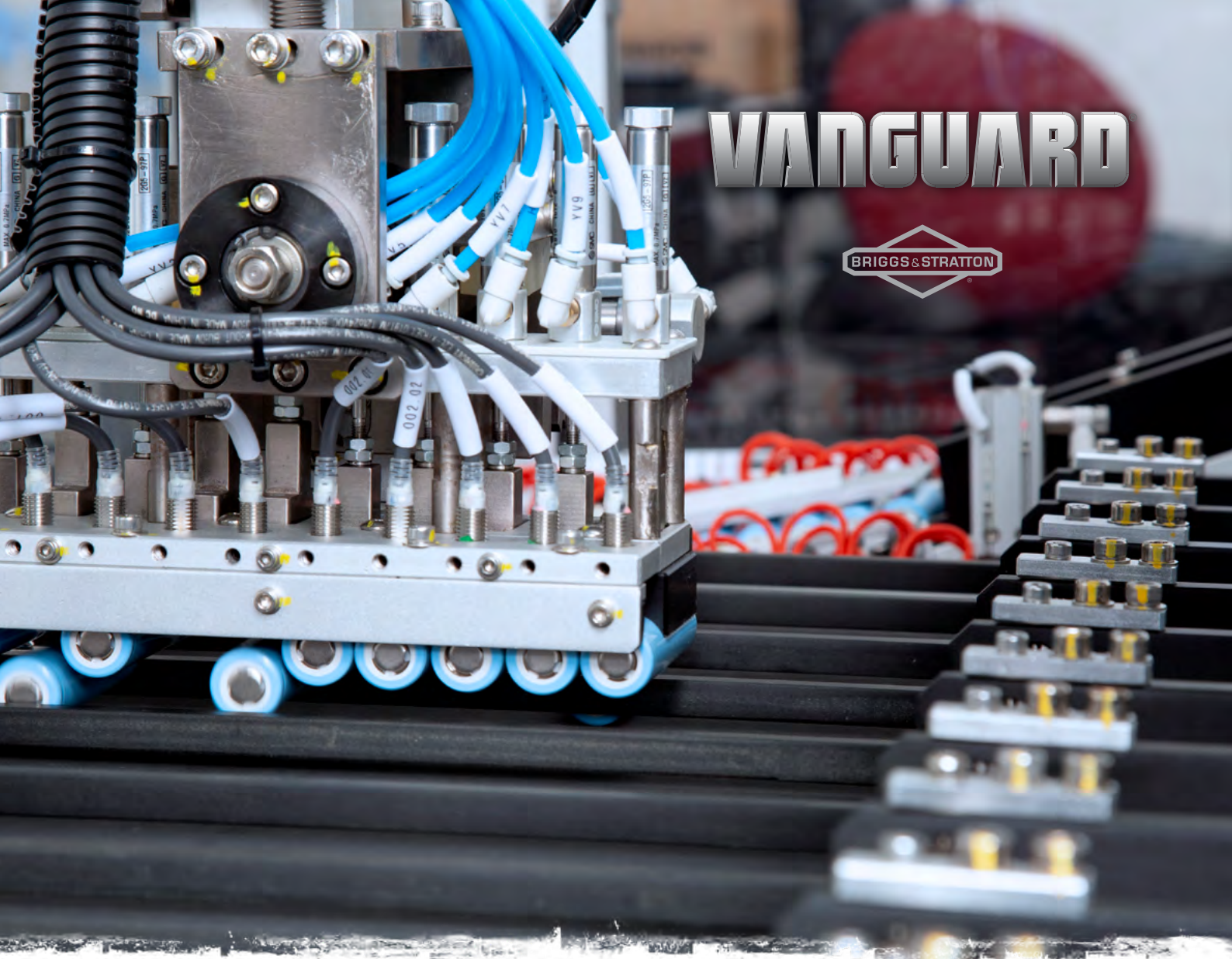


**VANGUARD**<sup>®</sup>



**5 WAYS SWAPPABLE  
BATTERIES WILL CHANGE  
THE POWER INDUSTRY**





# VANGUARD



## **5 WAYS SWAPPABLE BATTERIES WILL CHANGE THE POWER INDUSTRY**

The market for commercial batteries is continuing to grow, and swappable batteries in particular are changing the face of the power industry. Since its introduction, the many benefits of this innovative equipment have been impacting businesses, driving cost-savings and boosting efficiencies. As businesses seek to reduce their emissions by moving to reliable, durable, and powerful battery solutions, the new Vanguard® Lithium-Ion 48V 1.5kWh swappable commercial battery from Briggs & Stratton's Vanguard power range will enable them to meet goals without having to compromise on performance. Working with OEMs to reduce the total cost of ownership for users will further entice customers towards a greener future built on effective applications that withstand the rigorous demands of the worksite.

Below you will find out five ways that the Si 1.5kWh battery will revolutionise this growing market and why it is the perfect solution for your business.

# 1 SWAPPABLE BATTERIES LOWER THE TOTAL COST OF OWNERSHIP

Growing costs continue to affect businesses of all sizes, and finding ways to reduce expenditure is imperative. By switching to a swappable battery, businesses such as rental companies can improve asset battery utilization rates by swapping the battery between different machines. The key benefit here is the standardization of batteries across multiple brands and applications, enabling interchangeability which can ultimately lower the total cost of ownership.



# 2 EQUIPMENT AND BRAND AGNOSTIC SOLUTIONS

Effectively reducing the total cost of ownership relies on agnostic solutions that are not exclusive to different OEMs. Rather than relying on multiple in-house power solutions, which do not provide standardization in terms of fit, communication protocols, charging or performance, working with Vanguard allows OEMs to offer standardization which the customers and rental companies in particular request in order to streamline their business. This improves the offering for renters by providing access to more equipment powered by a single battery, in turn reducing the number of batteries that need to be manufactured, and ultimately the number of charging systems required. The unique ability of Briggs & Stratton's Vanguard batteries to deliver 100A continuous and 180 peak discharge currents makes fast-charging possible, an extremely desirable feature in the market. By being able to add more batteries to power hungry applications, OEMs can improve efficiencies and run machines for longer with a higher power output.

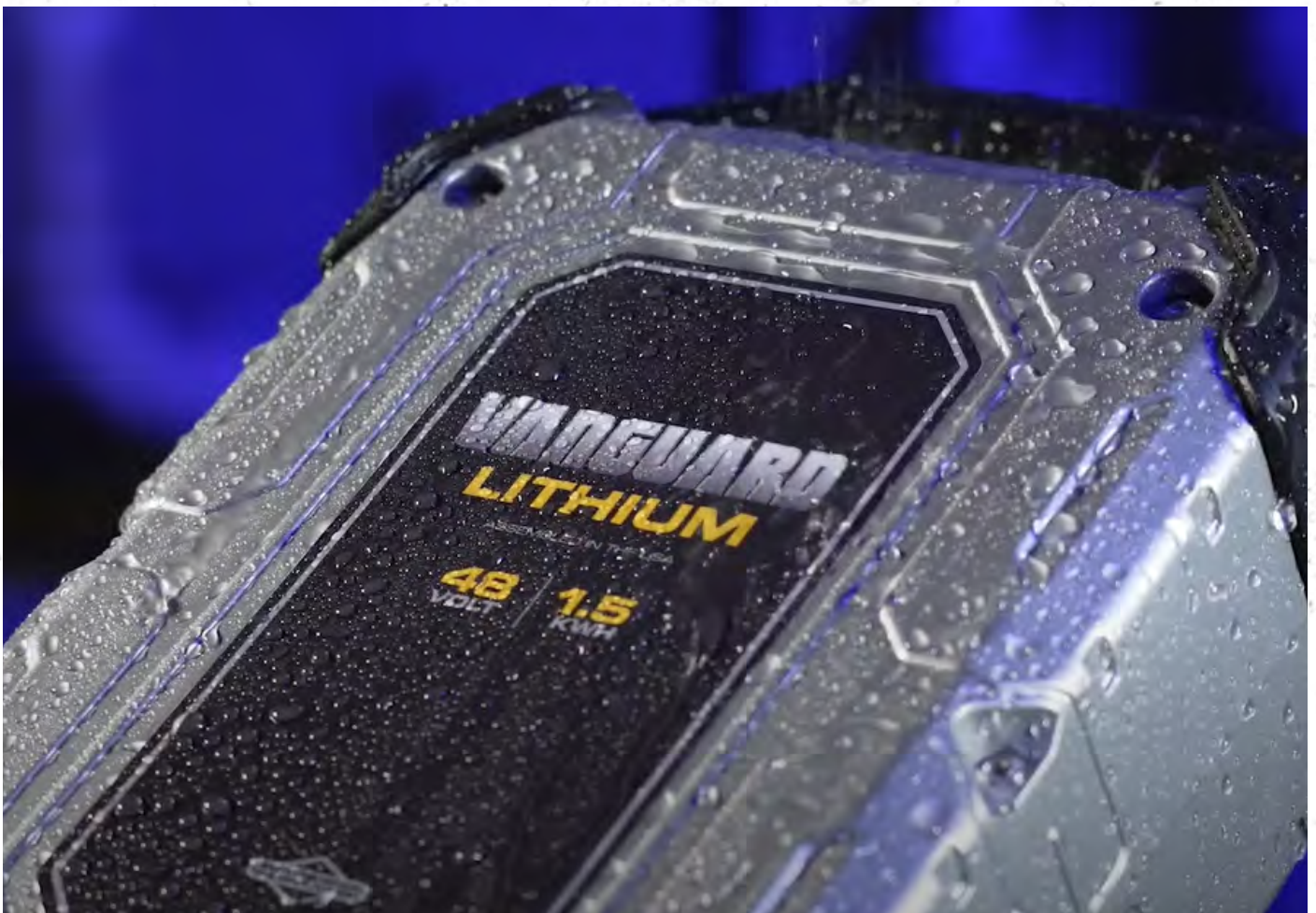
Briggs & Stratton is currently working on developing the Si 1.5kWh battery to operate in parallel with multiple Vanguard swappable batteries, which will make it an ideal power source for a range of applications, and offering genuine cost savings to the end user.



# 3 REDUCED EQUIPMENT DOWNTIME

The ability to charge one battery while another is in use has a hugely beneficial impact on efficiencies by reducing downtime and keeping machines running for longer. Batteries will always require charging, this is unavoidable, but the availability of multiple units maximises equipment usage in the rental period, delivering optimum value. With the easy latch system on the Si 1.5kWh Battery, users can swiftly replace a battery when it runs out of charge. This system also allows users to move the battery between applications as the need arises to tackle a wide range of tasks.

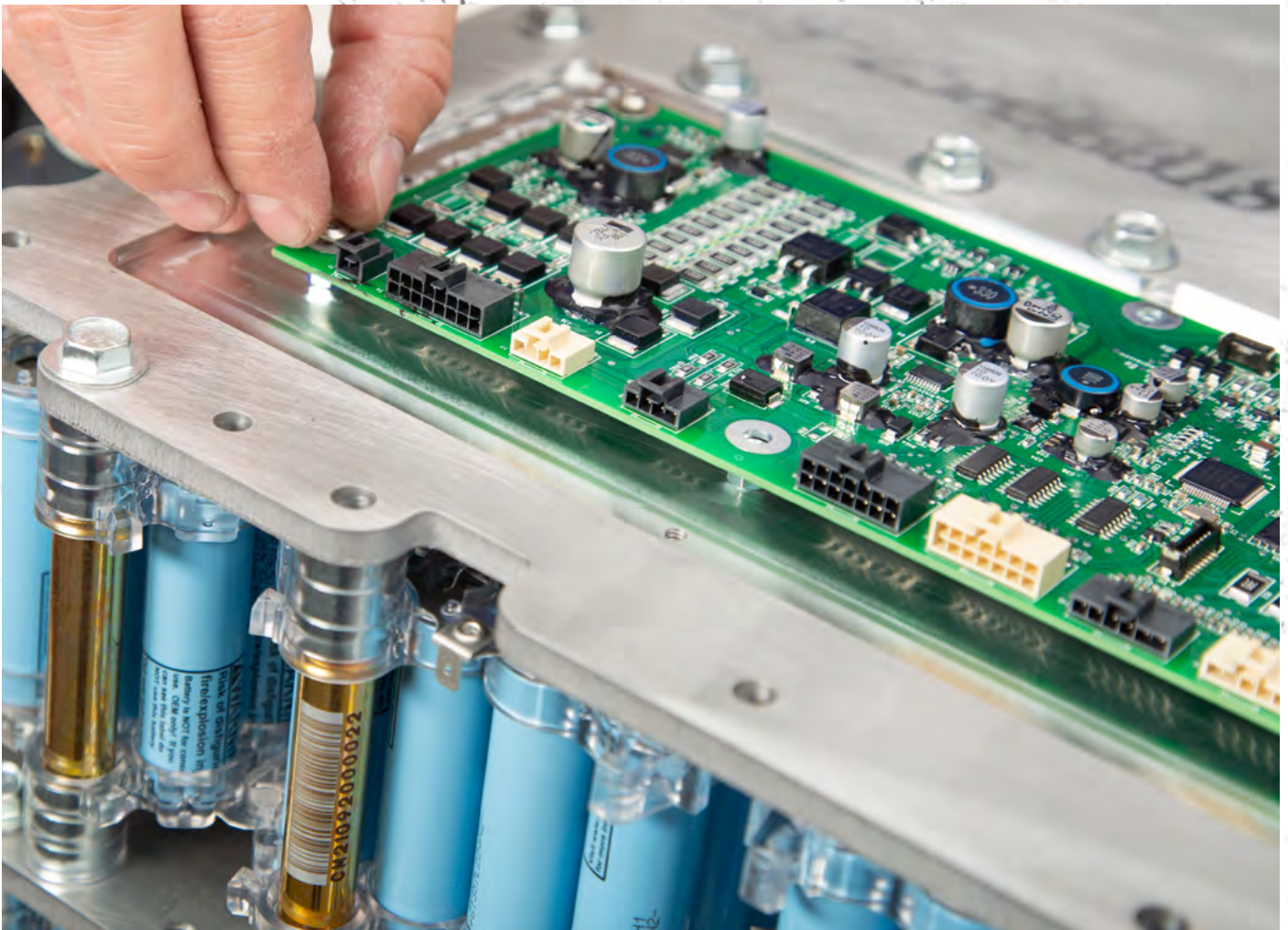
Alongside this, the Si 1.5kWh battery comes with an aluminium die-cast casing that has been tested in the harshest conditions to ensure it can withstand abuse, debris, and dirt. This ensures the battery is maintenance-free and will not fail when the user needs it most, allowing operators to focus on getting the job done.



# 4 SAFETY AND MONITORING

The Si 1.5kWh offers tremendous connectivity capabilities with its single CANbus J1939 communication protocol, which enables OEMs to communicate with the battery's J1939 (automotive standard) CANbus. Contributing to an overall reduction in downtime, effective monitoring of batteries off-site is ideal for operations managers and rental companies to be able to support staff in the event of an issue.

The integrated battery management system further supports this by operating as the brains of the battery to ensure that it functions in the most effective manner to maximize power discharge in every scenario. Controlling the individual cells of the battery, the BMS works to ensure safety for the end user by monitoring discharge and charge rates to prevent reductions in energy capacity and the risk of a thermal runaway event.



# 5 LESS BATTERIES, BETTER SUSTAINABILITY

Growing costs continue to affect businesses of all sizes, and finding ways to reduce expenditure is imperative. By switching to a swappable battery, businesses such as rental companies can improve asset battery utilization rates by swapping the battery between different machines. The key benefit here is the standardization of batteries across multiple brands and applications, enabling interchangeability which can ultimately lower the total cost of ownership.

Breaking away from closed-off battery platforms to work collectively with OEMs enables the industry to greatly reduce the number of batteries in production – a vital step towards the ultimate goal of a greener future. With integrated battery offerings, the industry can move towards the greener future that it wants to achieve by reducing emissions to zero at the point of use and significantly reducing noise pollution.

By minimizing the number of batteries in production the need for mining new materials is reduced, a considerable part of the total emissions that go into battery manufacturing. Instead, focusing on solutions where one battery can be used across a range of equipment reduces costs and contributes to a more sustainable future.

Making the switch to the Si 1.5kWh battery will help end users towards electrification targets without having to compromise on power and performance. Working collectively with OEMs, Briggs & Stratton's power agnostic approach will ensure that rental companies and end users can gain access to electrified applications that deliver on performance and sustainability.



# CONTACT US NOW

## AND FIND OUT HOW SWAPPABLE BATTERIES CAN HELP YOUR BUSINESS.



Contact us via email to: [vanguardpower.emea@basco.com](mailto:vanguardpower.emea@basco.com)



Find out more about Vanguard on: [www.vanguardpower.com](http://www.vanguardpower.com)



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# VANGUARD

**BRIGGS & STRATTON**

Wolleraustrasse 41  
8807 Freienbach, Switzerland  
+41 (0)55 415 1200  
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[WWW.VANGUARDPOWER.COM](http://WWW.VANGUARDPOWER.COM)