

## Versatile, off the shelf, automotive battery packs ease niche light duty vehicle developers into electrification

- *Final piece in the jigsaw as Swindon Powertrain offers low-volume car and light commercial vehicle manufacturers and developers a range of affordable lithium-ion High Energy Density (HED) battery packs alongside its range of compact electric powertrains*
- *Believed to be the first commercially available 'off the shelf' battery pack available both 30kWh and 60kWh HED versions available from September.*
- *Ideal for all light duty EV applications such as passenger cars, taxis and light commercial vehicles up to 3.5 tonnes*



The challenge for specialist vehicle, niche manufacturers and electric conversion specialists to source new, affordable, automotive-grade battery packs in low volumes, has been addressed by Swindon Powertrain with its High Energy Density (HED) range.

To date, niche manufacturers have had to develop their own packs each time or source parts from used EVs. As well as not knowing their history, such OEM packs tend to be packaged for a specific vehicle, making installation elsewhere difficult. Swindon Powertrain's HED is believed to be the first commercially available 'off the shelf' battery pack available, developed specifically for such users to buy as a single unit or in low, mid or high volumes.

Available from September, initially in either 30kWh or 60kWh options, HED is an automotive grade lithium-ion unit. Designed and developed according to ECE 100-03, it measures 1000mm long \* 420mm wide and either 375 or 615mm tall, depending on battery capacity. Compact and light (from 190kg) HED comes supplied with Battery Management System and Manual Service Disconnect in an enclosure for thermal management and damage protection. A 12-month warranty is standard.



The lack of commercially available automotive battery packs mirrors Swindon Powertrain's previous experience of trying to find low volume, high-performance, quality e-powertrains that ultimately led it to create its HPD range of 'crate' motor and transmission units. Now, in order to solve its own supply chain issues, it has commenced battery assembly in its facility that was originally used to build race winning F1 engines in the 1970s.

"Niche manufacturers and conversion specialists told us they couldn't source new, industry-grade batteries from the big suppliers who aren't interested in low-volume supply," says Swindon Powertrain's managing director Raphaël Caillé. "This has led to some recycling parts from used EVs, often of unknown provenance. HED means they have a fresh, turnkey battery pack complete with the peace of mind that comes from over 50 years of supplying to the motorsport and automotive markets."

HED joins the Swindon Powertrain range of high-quality and proven electric powertrain power units, controllers and accessories that enable the electrification of development vehicles, classic cars, quads, ATVs, light duty commercial and low volume, specialist vehicles. In addition to manufacturing and retailing electric powertrain products, the business offers powertrain design and simulation services, mechanical and electrical manufacturing, powertrain system testing and electrical integration services.

## Specification

PRODUCT	HED-30	HED-60
TOTAL ENERGY CAPACITY [kWh]	30	60
USABLE ENERGY CAPACITY [kWh]	28	55
CONTINUOUS DISCHARGE CURRENT [A]	174	174
MAXIMUM DISCHARGE CURRENT [A]	870	870
MAXIMUM POWER OUTPUT [kW]	153	307
CONTINUOUS POWER OUTPUT [kW]	31	61
MAXIMUM VOLTAGE [V]	209	418
NOMINAL VOLTAGE [V]	176	352
MINIMUM VOLTAGE [V]	132	264
WEIGHT (KG)	190	350
COOLANT COMPOSITION	Glycol (50%) Water (50%)	
AVERAGE COOLANT PRESSURE (BAR)	1	



ENDS

## About Swindon Powertrain

Established in 1971 as a high-performance engine specialist, Swindon Powertrain is leading designer and manufacturer of road and race engines and components. Starting with the maintenance of Formula 1 engines in the 70s and early 80s, it rapidly expanded in other branches of motorsport including rallying and touring cars. Today, the firm supplies the Hyundai BTCC team with its engines. Since 2010, the firm has diversified into supporting new road car powertrain development including alternative powertrains and electrification with facilities in France and the UK. In 2018 it launched its hyper electric bicycle the Swind EB-01, followed by the E-Classic, a fully engineered and electrified Mini. Today, it offers a range of off-the-shelf motors, transmissions and battery packs for niche and low volume manufacturers. For more information visit [www.swindonpowertrain.com](http://www.swindonpowertrain.com)

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