



Powering the hydrogen future™ with our outstanding fuel cells and service.

IE-LIFT 1/ IE-LIFT 2

Plug and play battery box replacements for material handling equipment.

Intelligent Energy's IE-LIFT™ is a compact, zero-emission fuel cell battery box replacement designed to meet the needs of 24V, 36V and 48V material handling equipment. Powered by our proven IE-POWER™ 1 fuel cell module, IE-LIFT integrates the fuel cell, hydrogen storage, battery and controller into a slim unit measuring just 210mm wide.

Designed for high-utilisation warehouse and logistics operations, IE-LIFT provides enough onboard hydrogen energy for a typical working shift, with refilling completed in under three minutes. This dramatically reduces downtime compared to battery charging or change-outs, helping to boost productivity and fleet availability.

IE-LIFT has been engineered for simple, drop-in integration. No vehicle modification is required - operators simply disconnect the existing battery, slide it out, and replace it with the IE-LIFT system.

Benefits:

- Easy to integrate
- Compatible with 24V / 36V / 48V forklift platforms
- Fast refuelling in under 3 minutes
- Reduced downtime and improved fleet efficiency
- No power degradation during periods of operation
- Quiet operation

Summary Product Information:

Summary Product Information:		L2	L1
Technical data	Nominal Voltage	48V ¹	24V ²
	Rated Current	320A	160A
	Rated Net Power	15kW (30kW peak)	3.84kW (7kW peak)
	Total Energy Content (Wh)	22,900	6,830
	Operating Temperature	5°C to 35°C	5°C to 35°C
	Relative Humidity	10% - 90%	10% - 90%
	IP Rating	IP20	IP20
	Weight	~1200kg	264kg
	Dimensions (mm)	499(W) x 784(H) x 1223(L)	210(W) x 622(H) x 790(L)

Fuel	Fuel Type	Hydrogen gas	Hydrogen gas
	Fuel Capacity	528g	264g
	Fuel Storage Pressure	nom. 350bar	nom. 350bar
	Fuelling Receptacle	WEH TN1 - SAE J2600	WEH TN1 - SAE J2600
	Refuelling Time	<5min	<5min
	Fuel composition	99.9% gaseous hydrogen or better	99.9% gaseous hydrogen or better

Other	Status Display	Front panel screen	Front panel screen
	User Interface	CAN	CAN
	Electrical Connection	REMA Standard plug	REMA Standard plug
	Emissions	Water Vapour	Water Vapour

1 Available as a 24 and 36V solution
 2 Available as a 36 and 48V solution



Get in touch today to find out how your applications can benefit from our zero-emission fuel cells

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