

# HyRange<sup>®</sup> Extender

Customisable Fuel Cell System for Electric Vehicles

## Basic Package Components

H<sub>2</sub>\*



Air\*



**PM 400 Stack Module inside**

Fuel Cell Stack Module 15–75 kW



**Electricity\***



**Cooling\***



**Controls**

*\*Optionally, additional extensions are possible*

## Typical application examples

- Public Transport
- Municipal vehicles
- Logistics and commercial vehicles
- Airport vehicles
- On-board auxiliary power supply (APU)

## Main benefits

- Freeze storage and start capable
- Zero emission
- Significant range increase
- Short refuelling time
- High efficiency
- Environment-friendly
- Customisable
- Innovative concept
- Silent operation
- Reduced carbon footprint
- Positive image

# HyRange<sup>®</sup> Extender

Type (Examples)	HyRange <sup>®</sup> 38	HyRange <sup>®</sup> 68
<b>Electrical System</b>		
Power Range [kW]	4.8–37.4	8.7–67.5
Current Range [A]	0–500	
Voltage Range [V DC]	75–137	135–248
EL. System Efficiency [%]	> 43	
<b>Hydrogen System</b>		
Hydrogen Quality	ISO 14687-2 / SAE J2719	
H2 Supply Pressure [bar <sub>g</sub> ]	1.2–8.0	
<b>Environmental Conditions</b>		
Ambient Temperature [°C]	-45 to +60	
Operating Altitude* [m]	< 2,000	
Humidity** [% r.H.]	< 95	
Lifetime [op. hrs.]	> 20,000	
<b>Others</b>		
Conformity	79/2009/EC ECE R10 ECE R100	
Protection class	IP66	

\* without de-rating  
 \*\* non condensing

Errors excepted, technical changes reserved.  
 Product specifications are subject to change without further notification.



MPV Fleets



City Bus Fleets



Logistic Fleets

## The hydrogen-based fuel cell HyRange<sup>®</sup> Extender for battery-electric vehicles and buses

The HyRange system, with the PM Fuel Cell Stack Module at its core, provides all the necessary components in order to increase the range and payload of battery electric vehicles with clean fuel cells. Flexible and adaptable to multiple applications, reliable and predictable thanks to Proton Motor's all round services.

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