

# PowerCell S2

**5-35 kW** PEM technology

PowerCell has launched a fuel cell stack that fulfils both mobile and stationary requirements and can be used in e.g. emergency power generators in telecommunications applications and as a range extender (REX) for battery-operated electrical vehicles. It is optimised to use reformed gas, but performs just as well on pure hydrogen. Modern, cost-effective serial production guarantees high quality and delivery capacity.



**Fuel flexible, for use with pure hydrogen or reformat gas**

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**Robust design extensively tested for automotive usage**

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**Metallic bipolar plates gives possibility for volume production**

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# Physical Data:

## Specification for standard stack sizes

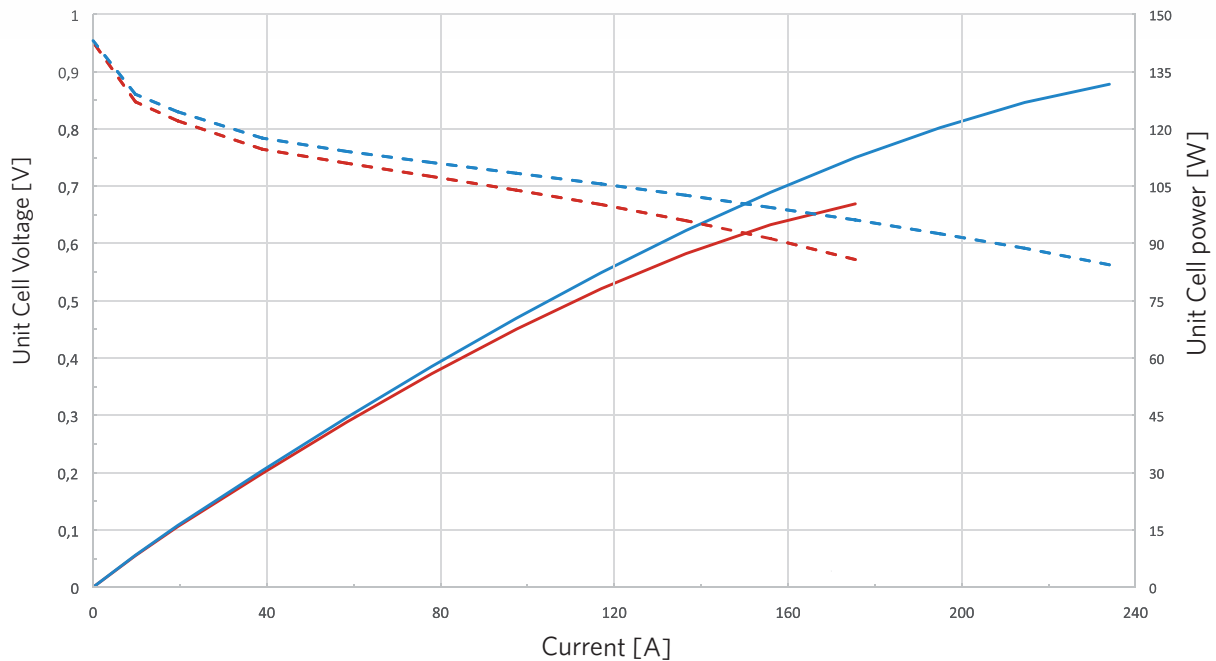
Max power (kW)	3	6.5	10	26	35.5
Cell Count	24	48	72	192	264
Dimensions (mm)	490x125x155	490x158x155	490x192x155	490x358x155	490x459x155
Weight (kg)	11.2	13.7	29	34	43

*\*PowerCells S3 stack power and size can be modified for specific needs*

## All models

Max continuous temperature	85 °C
Humidity	Non-condensing at inlet
Fuel Pressure	< 1.2 Bar (g)
Coolant pressure	< 1.5 Bar (g)
Ambient temperature	-30 - 70 °C
Fuel composition (dry basis)	40-100 % H <sub>2</sub> (0-60% inert dilutants, i.e. He + N <sub>2</sub> + Ar)

# Unit Cell Data



## Highlighted segments

For years, PowerCell has developed fuel cell stacks and systems. Within PowerCell's prioritised segments, the number of reference cases and projects is increasing. Whether it's in automotive, marine, stationary or material handling, different types of customers and partners are benefitting from PowerCell's fuel cell expertise.



*Nikola Motors*

### Heavy duty vehicals

PowerCell's stacks are developed to meet the needs of the transportation industry. They are robust, scalable and have a world class power density. Since the products are modular and light weight our fuel cell systems are easy to integrate in a range of vehicles such as buses, trucks, and passenger cars.



*Maranda*

### Marine

The world class power density makes PowerCell's systems easy to integrate and the products are designed to withstand harsh conditions at sea. Our products are constructed of industrial components and are thus reliable, have a high uptime and a long lifetime. Our solutions are adopted for marine applications.



*Kalmar Cargo*

### Material Handling

Our fuel cell stacks and systems are delivering world class power density which makes our products compact and robust. This feature enables PowerCell to offer customised solutions in contrast to alternative, standard installations. PowerCell's products offers top performance for special purpose machines. Fuel cell systems generate power at locations where there is no power grid, without the hustle of drawing power cables to the site.

