

CPEM* fuel cell stack

Automotive metallic M-Stack 240 cm², 40 kW



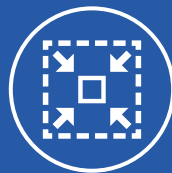
Industrial,
compact,
automotive,
flat and
lightweight



Automotive



Industrial



Compact
> 4 kW/L



Powerfull
> 2 kW/kg



Manufacturing
under license



Shock &
vibration proof



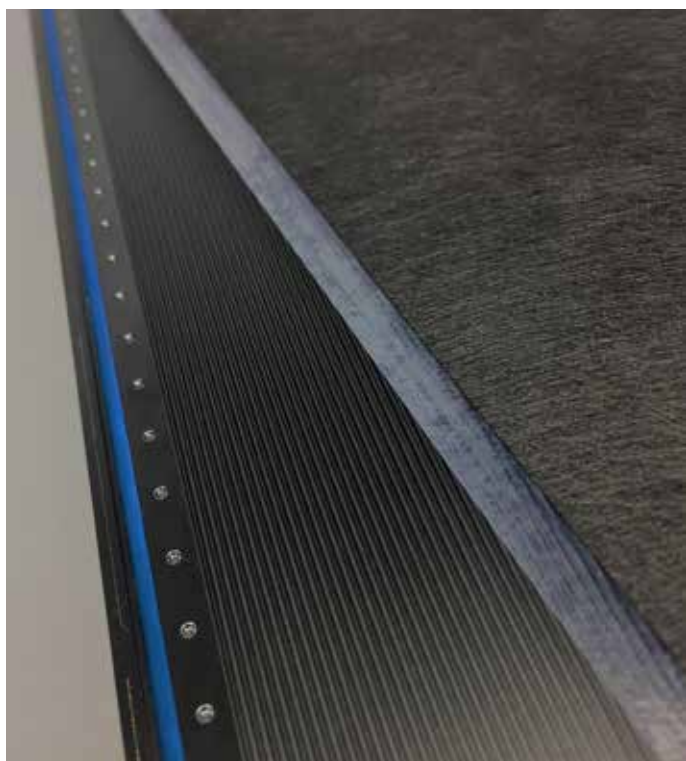
Support to
integration

Technical characteristics

Configuration

# of cells	145
Power (kW)	40
Voltage (V)	90
Current (A)	460
Width (mm)	450
Height (mm)	110
Length (mm)	210
Weight (kg)	20

Under nominal conditions: $P_{air} = P_{H_2} = 1 \text{ barg}$, $ST_{air} = 2.5$, $RH_{air} = 50\%$, $T = 75^\circ\text{C}$
 Dimensions and weight are given without the external stack's casing.

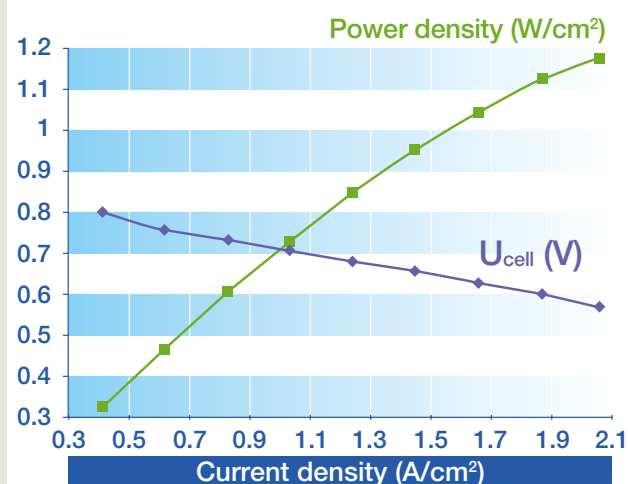


Operational range

Air	Pressure: between atmospheric and 2.5 barg
H ₂	$P_{H_2} = P_{air} \pm 500 \text{ mbar}$ & $P_{H_2} < 2.5 \text{ barg}$, dead-end or recirculation
Coolant	$\Delta T \leq 7^\circ$, DI water or anti frost: typically BASF Glysantin®

M-240 polarization curve

$ST_{air} = 2.5$, $HR_{air} = 50\%$, $P_{air} = 1 \text{ barg}$, $T^\circ = 75^\circ\text{C}$



Strength of a Group

- Axane is a 100% Air Liquide subsidiary
- Air Liquide hydrogen solutions can be handled globally and worldwide
- Patented technologies

Contacts

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