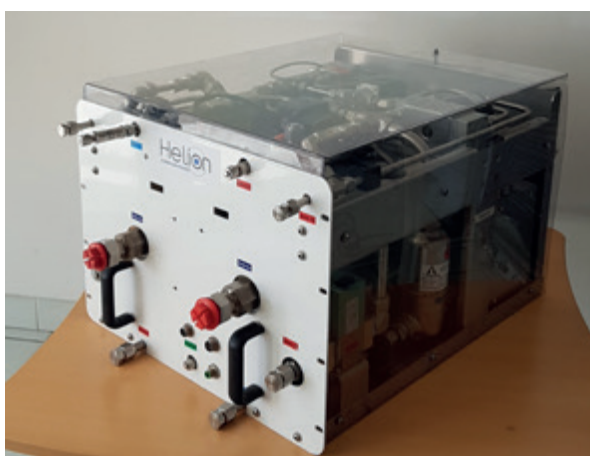


# HEAVY DUTY FUEL CELL PRODUCTS

## H<sub>2</sub>/AIR PEM\* TECHNOLOGY



### FUEL CELL MODULES



### FUEL CELL RACKS



Technical data at BOL**	FCM 5	FCM 10	FCM 15	FCM 20	FCM 30	FCM 50	FCR 90	FCR 180	FCR 350	FCR 700	FCR 1000	FCR 2000
Nominal / Max net power, kW	4.6 / 5	7.5 / 10	11.5 / 15	16 / 20	22 / 30	37.5 / 50	67 / 90	134 / 180	268 / 350	530 / 700	800 / 1000	1600 / 2000
Voltage range (DC), V	50 - 84	81 - 137	125 - 210	50 - 84	69 - 116	116 - 194	200 - 336	400 - 672	800 - 1344			
Current range (DC), A	0 - 165	0 - 165	0 - 165	0 - 582	0 - 582	0 - 582	0 - 582	0 - 582	0 - 582	0 - 1164	0 - 1746	0 - 3493
Efficiency at Nominal / Max power	48 / 41%	48 / 43%	48 / 42%	48 / 44%	48 / 43%	48 / 43%	50 / 43%			50 / 44%	50 / 44%	
Number of Racks							0,5	1	2	4	6	12
Dimensions per unit Hx Wx L, mm	350 x 450 x 650	350 x 450 x 950	350 x 450 x 1250	600 x 450 x 650	600 x 450 x 800	600 x 450 x 1140	500 x 600 x 2000	1000 x 600 x 2000				
Total module weight, kg	52	60	68	118	131	166	500	727	1454	2908	4362	8724
H2 purity required	ISO 14687 (2019)						ISO 14687 (2019)					
H2 consumption at Nominal / Max power, kg/h	0.3 / 0.4	0.5 / 0.7	0.7 / 1	1 / 1.5	1.4 / 2.1	2.3 / 3.5	4 / 6.1	8 / 12.3	16.1 / 24.5	32.2 / 48.9	48.2 / 73.7	96.5 / 147.4
Air quality	Ambiant filtered by default / Adaptable depending on environmental conditions (sea, dust, etc.)						Ambiant filtered by default / Adaptable depending on environmental conditions (sea, dust, etc.)					
Stack coolant	Clycol and deionized water						Clycol and deionized water					
Life warranty, h	10 000						10 000					

\* Proton Exchange Membrane

\*\* Beginning Of Life

Data and product appearance contained in this brochure can change and cannot be considered as contractually binding.





FUEL CELL MODULES / RACKS

ELECTRICAL BOX  
CONTROL  
ELECTRONICS



"ALL IN-A-BOX" & TRANSPORTABLE



TURNKEY H<sub>2</sub> PLATFORM

## CHOOSE YOUR OPTION



POWER CONVERTER



H<sub>2</sub> STORAGE



HEAT / COLD PRODUCTION



AIR / WATER COOLED



CONTAINERIZATION



H<sub>2</sub> ONSITE PRODUCTION



UPS / ISLANDING MODE



EV CHARGING / H<sub>2</sub> REFUELING

## ... DEPENDING ON YOUR APPLICATION

### HEAVY MOBILITY



Train



Inland shipping



Marine

### ENERGY STORAGE



Smart grid



Remote site

### STATIONARY



Onshore power supply



Backup



Genset



Renewable energy storage

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