



PRODUCT SPECIFICATIONS OF XXL STACKS

	FCS 2-XXL	FCS 5-XXL	FCS 8-XXL	FCS 10-XXL
Electrical Output				
Rated Power (kWe)	2.0	5.0	8.0	9.5
Voltage range (V)	9- 16	22 - 39	35 - 62	41 - 73
Current range (A)	0 – 230	0 – 230	0 – 230	0 – 230
Mechanical				
Weight (kg)	20	28	36	40
Size (mm)	217x194x288	353 x194x288	491x194x288	550x194x288
Operating condition				
Temperature and pressure level	65 °C, ambient pressure			
Max. cooling requirement (kW thermal)	3.4	8.6	14	16
Hydrogen				
Purity	Grade ≥ 2.5 (CO < 0.2 ppm)			
Humidity (at stack temperature)	> 50% RH			
Pressure level (barg)	0.15 - 0.3			
Pressure drop (bar)	< 0.05			
Stoichiometry	> 1.25			
Max. H ₂ consumption (NI/min)	25	64	102	120
Max. required H ₂ flow (NI/min)	32	80	128	150
Air				
Quality	Instrument air quality			
Humidity (at stack temperature)	80% RH			
Pressure drop (bar)	< 0.12			
Stoichiometry	2.0			
Max. air flow (NI/min)	122	305	488	572
Cooling				
Medium	DI water or BASF FC G20			
Pressure drop (bar)	< 0.15 DI water or < 0.45 BASF FC G20			
Operating window	ΔT < 5K			