

Specifications of Horizon fuel cells H-SERIES

№	Параметр	FCS-C100	FCS-C200	FCS-C300	FCS-C500	FCS-C1000	FCS-C2000	FCS-C3000	FCS-C5000
1	Number of Cells	20	40	60	24	48	48	72	120
2	Rated Power	100	200	300	500	1000	2000	3000	5000
3	Rated Performance	12 / 8.3	24 / 8.3	36 / 8.3	14.4 / 35	28.8 / 35	28.8 / 35	43.2 / 70	72 / 70
4	Hydrogen Supply Valve Voltage	12	12	12	12	12	12	12	12
5	Purging Valve Voltage	12	12	12	12	12	12	12	12
6	Blower Voltage	12	12	12	12	12	12	12	12
7	Reactants	Hydrogen and Air							
8	Ambient Temperature	5-30	5-30	5-30	5-30	5-30	5-30	5-30	5-30
9	Max Stack Temperature	65(149)	65(149)	65(149)	65(149)	65(149)	65(149)	65(149)	65(149)
10	Hydrogen Pressure	0,45-0,55	0,45-0,55	0,45-0,55	0,45-0,55	0,45-0,55	0,45-0,55	0,45-0,55	0,45-0,55
11	Cooling	Air (integrated cooling fan)							
12	Controller Weight	1290 (± 30)	2230 (± 50)	3000 (± 50)	3370 (± 50)	5760 (± 100)	14100 (± 100)	15000 (± 100)	30000 (± 200)
13	Stack Weight (with Fan & Casing)	400	400	400	627	627	2500	2500	2500
14	Hydrogen Flow Rate at Max Output	118x104x 94	118x183x 94	118x183x 94	130x268x 122.5	219x268x 113	303x350x 183	418x350x 183	650x350x 212
15	Stack Size	1.3	2.6	3.9	6.5	13	26	36	36
16	Hydrogen Purity Requirement	99,995							
17	Start up time	30							
18	Efficiency of System	40% at 12V	40% at 12V	40% at 12V	40% at 14.4V	40% at 28.8V	40% at 28.8V	40% at 28.8V	40% at 28.8V
19	Low Voltage Protection	10	20	30	30	30	30	30	30
20	Over Current Protection	12	12	12	42	42	90	90	90
21	Over Temperature Protection	65	65	65	65	65	65	65	65
22	External Power Supply	13 V (±1), 5A	13 V (±1), 5A	13 V (±1), 5A	13 V (±1), 5A	13 V (±1), 5A-8A	13 V (±1), 5A-8A	13 V (±1), 5A-8A	24V (±1), 8A-12A