



Hydrogen Fuel Cell System

Hercules ACFC



CE certification approved

- Start-up speed 1.8S
- Service life 2000h
- Single stack 100W~3000W
- Bare stack power density 1200W/kg

Specification

Hydrogen purity: $\geq 99.999\%$ VOL(CO<1PPM)

Hydrogen pressure: 0.05~0.09MPa(Recommended standard operating pressure 0.07MPa)

Operating ambient temperature: $-5^{\circ}\text{C}\sim 42^{\circ}\text{C}$

Working environment humidity: 10%~95%RH

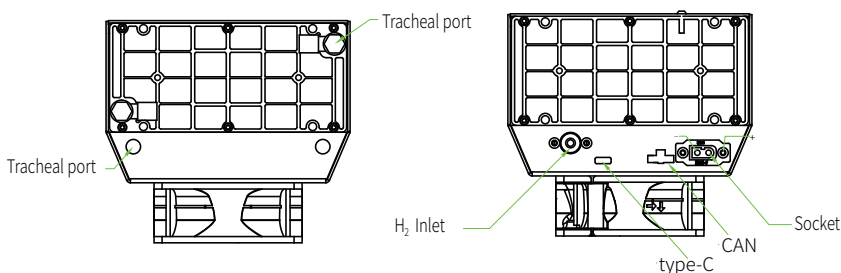
Noise: $\leq 50\text{dB}@3\text{m}$

External voltage: Type C 5V or CAN 12V (for startup only)

Power to weight ratio: **800W/kg**

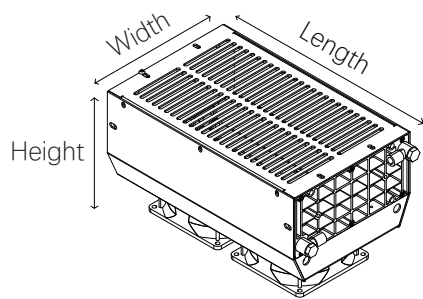
Volume power density: **500W/L**

Interface and Connectors

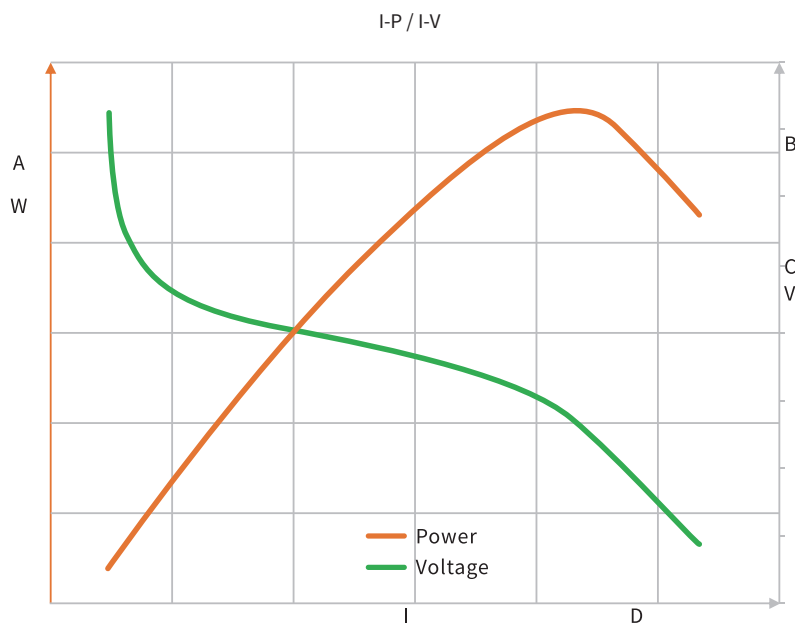


H ₂ Tube	PU6
Communication	USB-C
CAN	X3025WRS-04D-LPSW
Power Output	Amass XT60E-F

Model No.	Description	Rated power.A	Open Circuit.B	Minimum Voltage.C	Rated Current.D	Rated Voltage.V	H ₂ Consumption Rate	L*W*H in mm	Weight
		(W)	(V)	(V)	(A)	(V)	(NL/min)	(mm)	(kg)
FC-014-150-C-B000	150W System powered by FC-014-168	150	24	13	10.7	14	2.1	176*72*143	0.87
FC-014-168	168W Full Cell Stack	168	24	13		14	2.1	89*70*70	0.55
FC-027-250-C-B000	250W System powered by FC-027-315	250	45	25	9.25	27	3.92	152*72*143	1.24
FC-027-315	315W Full Cell Stack	315	45	25		27	3.92	139*70*70	0.75
FC-048-450-C-B000	450W System powered by FC-048-500	450	44	80	9.3	48	7	176*72*143	1.73
FC-048-500	500W Full Cell Stack	500	44	80		48	7	225*68*69	1.11
FC-027-750-C-B000	750W System powered by FC-027-900	750	25	45	27.8	27	11.25	165*152*14	2
FC-027-900	900W Full Cell Stack	900	25	45		27	11.2	145*148*68	1.3
FC-027-1200-C-B000	1200W System powered by FC-027-1500	1200	25	45	44.5	27	18.7	238*165*136	3
FC-027-1500	1500W Full Cell Stack	1500	25	45		27	18.7	238*145*100	2
FC-051-1600-C-B000	1600W System powered by FC-051-1750 (metal shell)	1600	46	85	31.3	51	21.8	263*152*140	3.02
FC-051-1600-C-B000	1600W System powered by FC-051-1750 (composite shell)	1600	46	85	31.3	51	21.8	263*152*140	2.93
FC-051-1750	1750W Full Cell Stack	1750	46	85		51	21.8	242*148*68	2.13
FC-051-1700-C-B000	1700W System powered by FC-051-1850 (metal shell)	1700	46	85	33.3	51	23.1	26.3*15.2*14	3.02
FC-051-1700-C-B000	1700W System powered by FC-051-1850 (composite shell)	1700	46	85	33.3	51	23.1	26.3*15.2*14	2.93
FC-051-1850	1850W Full Cell Stack	1850	46	85		51	23.1	24.2*14.8*6.8	2.13
FC-054-1800-C-B000	1800W System powered by FC-054-1950	1800	49	50	33.3	54	24.4	271*152*140	3.15
FC-054-1950	1950W Full Cell Stack	1950	49	50		54	24.4	255*148*68	2.23
FC-051-2500-C-B000	2500W System powered by FC-051-2800	2500	46	85	49	51	34.84	263*240*136	4.69
FC-051-2800	2800W Full Cell Stack	2800	46	85		51	34.84	243*238*68	3.19



3D dimension



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