## **H-Series Fuel Cell Stacks**



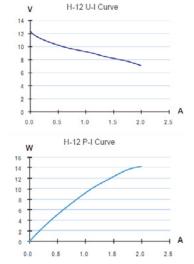
## H-12 12W

FCS-B12



Semi-integrated 12W fuel cell system

Integrated fan and casing 12W stack iwth blower



Type of fuel cell	PEM
Number of cells	13
Rated power	12W
Rated performance	7.8V at 1.5A
Purging valve voltage	6V
Blower voltage	5V
Reactants	Hydrogen and Air
Ambient temperature	5-30°C (41-86°F)
Max stack temperature	55°C (131°F)
Hydrogen pressure	0.45-0.55Bar
Humidification	Self-humidified
Cooling	Air (integrated cooling fan)
Stack weight (with fan and casing)	275g (±30g)
Stack size	75x47x70mm
Flow rate at max output	0.18L/min
Hydrogen purity	≥99.995% dry H2
Start up time	≤30s (ambient temperature)
Efficiency of system	40% at full power

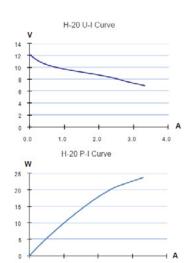
## H-20 20W

FCS-B20



Semi-integrated 20W fuel cell system

Integrated fan and casing Compared to the contraction of the contraction o 20W stack with blower



Type of fuel cell Number of cells 13 Rated power 20W Rated performance 7.8V at 2.6A Purging valve voltage 6V Blower voltage Reactants Hydrogen and Air Ambient temperature 5-30°C (41-86°F) Max stack temperature 55°C (131°F) Hydrogen pressure 0.45-0.55Bar Humidification Self-humidified Cooling Air (integrated cooling fan) Stack weight (with fan and casing) 275g (±30g) Controller weight 90q (±10q) 75x47x70mm Flow rate at max output 0.28L/min Hydrogen purity ≥99.995% dry H2 Start up time ≤30s (ambient temperature) Efficiency of system 40% at full power

## H-30 30W

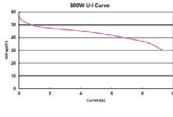
FCS-B30

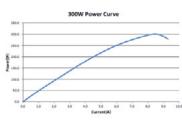




Semi-integrated 30W fuel cell system

- O Control electronics
- Integrated fan and casing
- Complete the contraction of t
- 30W stack with blower





Type of fuel cell PEM Number of cells 14 Rated power 30W Rated performance 8.4V at 3.6A 6V Purging valve voltage Blower voltage Hydrogen and Air Reactants Ambient temperature 5-30°C (41-86°F) 55°C (131°F) Max stack temperature Hydrogen pressure 0.45-0.55Bar Humidification Self-humidified Cooling Air (integrated cooling fan) Stack weight (with fan and casing) 280g (±30g) Controller weight 90g (±10g) Stack size 80x47x75mm Flow rate at max output 0.42L/min Hydrogen purity ≥99.995% dry H2 Start up time ≤30s (ambient temperature) Efficiency of system 40% at full power