

FCSU-33

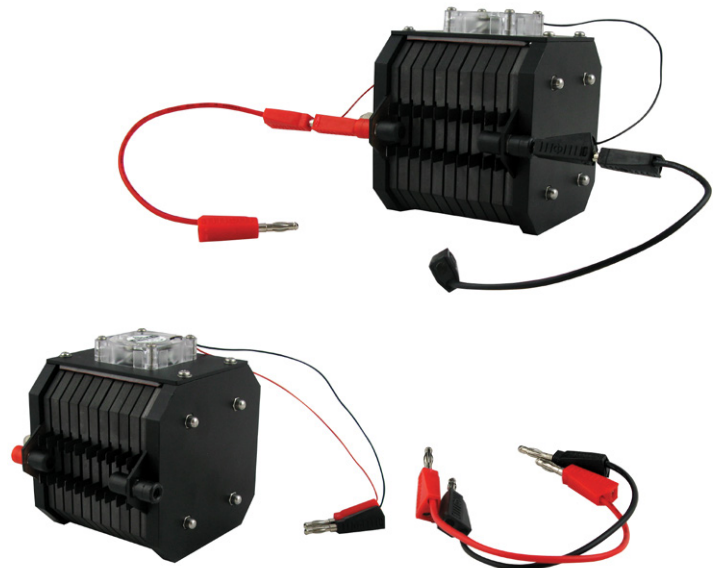


Product Description


EDUSTAK PRO demonstrates the fuel stack technology that is powering cutting-edge transport solutions and generators. Assemble your own fuel cell stack of individually connected cells and then power up with the refillable HYDROSTIK PRO metal hydride cartridges. EDUSTAK comes in 5-cell and 10-cell stacks depending on your hydrogen power requirements. No tools necessary to assemble the cell stacks so you can concentrate on creating your very own hydrogen powered applications. This ease of use makes it simple to scale the stacks to different power levels and integrate equipment such as sensors. Whether it's advanced research on MEAs, creating your own fuel cell lab or conducting professional training EDUSTAK PRO also has a host of practical applications.

Features

- ✓ Easy-assembly – no tooling required
- ✓ The stack power is readily scalable and it's straightforward to integrate sensors
- ✓ Rated output power up to 20W
- ✓ Optimal thermal management with air cooling circulation in each plate
- ✓ Includes HYDROSTIK PRO with tubing and adapted pressure regulator
- ✓ Comes with a complete instruction guide



Language Pack

- ✓ Assembly Guide CD: 
- ✓ Technical Support Guide CD: 

Add-on

Create your own hydrogen powered devices that can be completely self-sufficient, with the optional addition of the HYDROFILL PRO hydrogen station.



**H₂ REFUELING
STATION**



FCH-020



Content

- ✓ EDUSTAK PRO
- ✓ HYDROSTIK PRO
- ✓ Manometer
- ✓ EDUSTAK PRO blower
- ✓ Wires
- ✓ Air pressure bulb
- ✓ HYDROSTIK PRO base
- ✓ Purging valve with tube
- ✓ Screws
- ✓ Three port connector
- ✓ 3 Silicon tubes
- ✓ Clamp with tube
- ✓ Pressure regulator
- ✓ HYDROSTIK PRO support

Specifications

Type of fuel cell	PEM
Number of cells	10.0
Rated power	20W
Performance	6V at 3.4A
Reactants	hydrogen and air
External temperature	5 to 40°C
Max stack temperature	60°C
H ₂ pressure	0.45-0.55bar
Hydrogen purity	≥99.995% dry H ₂
Humidification	self-humidified
Cooling	air (integ. cooling fan)
Dimension	105 X 90 X 130mm
Weight	1000 g
Flow rate at max output ^[1]	0.25 L/min
Start up time	≤30s at room temp.
Efficiency of stack	40% at full power
Low voltage shut down	5V
Over current shut down	10A
Over temp. shut down	60°C

^[1] The flow rate may change with the power output.

The specifications are subject to change without notice.

*All the information in this datasheet is subject to change without notice.
In case of doubt please contact the Horizon sales team.

Packing Information

Case Pack Quantity (units):	1
Master Pack Quantity (units):	1
Packaging Type:	cardboard
20' Container (units):	790
40' Container (units):	1615
Unit Box Length (cm/in):	44 / 17.32
Unit Box Width (cm/in):	33 / 12.99
Unit Box Height (cm/in):	23 / 9.06
Unit Volume (Litres/Cubic Meters):	33.4 / 0.033
Unit Box Weight (kg/lbs):	2.8 / 6.17
Case Pack Length (cm/in):	44 / 17.32
Case Pack Width (cm/in):	33 / 12.99
Case Pack Height (cm/in):	23 / 9.06
Case Pack Volume (Litres/Cubic Meters):	33.4 / 0.033
Case Pack Weight (kg/lbs):	2.8 / 6.17

*The cartons' size may vary between ±1-2 cm.

Logistics Information

Item UPC-Code:	6942503405187
Item HS-Code:	-
Manufactured in:	Shanghai, China
Local Warehouse	Prague, Czech Republic
FOB Harbor:	Los Angeles, USA
First Ship Date:	available now
Minimum Order:	1