

FCJJ-11



## Product Description

Horizon's Fuel Cell Car Science Kit enables students to discover the principles behind the real-scale fuel cell vehicles currently being rolled out across the world. A reversible PEM fuel cell first electrolyzes water to separate oxygen and hydrogen molecules. This hydrogen is then converted into electrical energy to power the car. Plus, the car drives itself - capable of negotiating obstacles independent of the user. Cutting edge technology and RC gadget fun in one science kit!

## Features



- ✓ Best entry level fuel cell car kit on the market and one of Horizon's best sellers!
- ✓ Clearly demonstrates the science behind electrolysis and the decomposition of water into oxygen and hydrogen.
- ✓ Includes solar panel for powering electrolysis, and complete experiment guide on CD

## Language Pack



## Experiment & Activities



- ✓ Assembly and operation of the kit
- ✓ The Effect of Heat on Solar Panels
- ✓ The Effect of Shade on Solar Panels
- ✓ The Effect of Tilt Angle on Solar Panels
- ✓ Finding the Solar Panel's Maximum Power Point
- \*requires variable resistor module-sold separately
- ✓ Electrolysis Mode Generating Hydrogen and Oxygen from Water
- ✓ Fuel Cell Mode Generating Electricity from Hydrogen and Oxygen
- ✓ Determining the Minimum Voltage for Water Decomposition
- ✓ Polarization States for Hydrogen Fuel Cells



## Kit Content

- ✓ Chassis with LED light & motor
- ✓ Reversible (PEM) fuel cel
- ✓ Hydrogen tank
- ✓ Oxygen tank
- ✓ Inner Gas containers
- ✓ 0.75 Watt solar cell
- ✓ 2 x 2mm Connecting leads
- ✓ Battery pack with connecting leads (requires 2 X AA batteries)
- ✓ Plastic plug pins for fuel cell
- ✓ Transparent silicon tubing

## Certification

ROHS, EN71:PART1;PART2;PART3, EN55104, HR4040(LEAD), EN61000/EN62115, ASTM/WEE, PHTHALATES, CADIMUM, PSR,

## Packing Information

<b>Case Pack Quantity</b> (units):	1
<b>Master Pack Quantity</b> (units):	12
<b>Packaging Type:</b>	cardboard
<b>20' Container</b> (units):	2760
<b>40' Container</b> (units):	6480
<b>Unit Box Length</b> (cm/in) :	30 / 11.8
<b>Unit Box Width</b> (cm/in):	21 / 8.3
<b>Unit Box Height</b> (cm/in):	10 / 3.9
<b>Unit Volume</b> (Cubic Meters/Litres/Feet):	0.01 / 6.3 / 0.35
<b>Unit Box Weight</b> (kg/lbs) :	0.66 / 1.5
<b>Case Pack Length</b> (cm/in):	63 / 24.8
<b>Case Pack Width</b> ( cm/in):	45 / 17.5
<b>Case Pack Height</b> (cm/in):	35 / 13.8
<b>Case Pack Volume</b> (Cubic Meters/Litres/Feet):	0.1 / 99.2 / 3.53
<b>Case Pack Weight</b> (kg/lbs):	9.3 / 20.5

## Logistics Information

<b>Item UPC-Code:</b>	6942503400069.0
<b>Item HS-Code:</b>	95038082.0
<b>Manufactured in:</b>	Shanghai, China
<b>Local Warehouse:</b>	Prague, Czech Republic Los Angeles, USA
<b>First Ship Date:</b>	available now
<b>Minimum Order:</b>	12.0