

GreenHub Powerbox

Hydrogen Fuel Cell UPS 500W-2kW

Applications:

- Remote "off-grid" power
- Telecom back-up power
- Emergency power
- Outdoor events
- Remote construction



A complete fuel cell UPS power system solution

Horizon and H2Planet are now introducing a complete suite of standby power systems that are able to run on bottled industrial hydrogen gas, or metal hydride canisters able to store renewable energy using PEM electrolyzers. The GreenHub line of UPS systems ranges from 500W to 2kW, and combines self-humidified PEM fuel cells from Horizon with Italian system engineering by H2Planet, including innovative remote control features via GPRS using iPhones or PDAs!

GreenHub Powerbox UPS 500W-2kW

Horizon and H2Planet are introducing a complete suite of standby power systems that are able to run on bottled industrial hydrogen gas or in combination with electrolyzers and metal hydride H2 storage. These systems offer innovative remote monitoring systems.



Features

- Integrated self-humidifying PEM stack
- Rubber handles for transport
- Threaded attachments for wall-mounting
- Secure pressure system
- Quick stop access
- Programmable (weekly or standby)
- Integrated inverter DC/DC & AC/DC
- 220-230V AC @50Hz (optional 110V AC)
- 12/24 DC output for battery chargers
- USB 2.0 output for electronics
- Safety sensors for H2, temperature, and H2 pressure control levels

Benefits

- Zero carbon emissions
- Silent operation
- Longer lifecycle over conventional systems
- Indoor use capability
- Anti-freeze heat recovery system
- 3 output sockets in one: 12V DC, 5V USB, 220V AC
- Auto regulating feed system with pressure regulators
- Can use hydride canisters or pressurized cylinders
- Compatible with our catalyzed combustion system
- Can be integrated with various renewable energies
- Can use industrial bottled gas
- Compact and easily transportable
- Easy to install and operate

Specifications

	500W	1000W	2000W
Maximum rated power	400W	800W	1800W
Output AC	220 V AC @50Hz (110 V AC optional)	220 V AC @50Hz (110 V AC optional)	220 V AC @50Hz (110 V AC optional)
Output DC	USB @ 5V; 12/24V DC	USB @ 5V; 12/24V DC	USB @ 5V; 12/24V DC
Hydrogen Purity	99.995%H2	99.995%H2	99.995%H2
Fuel pressure	2-6 bar	2-6 bar	2-6 bar
Fuel consumption	6.5 L/min	14 L/min	28 L/min
Dimensions	30×40×20cm	40×60×25cm	40×60×25cm
Weight	18.5kg	20kg	25kg

Options:

- iGreen: GreenHub remote control (iPhone and PDA)-H2 cylinder replacement
- By-product heat recovery system duct using "GreenAir" system
- H2Swap: GreenHub on-site cylinder delivery and cylinder swapping

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