

PBox



Turnkey Fuel Cell Solution

PB20-PB40/PB65/PB100/PB200



**Innovation is our
nature**

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PBox

Protio's **PBox** is a turnkey solution based on PEM fuel cell systems designed to offer a zero emission power generation solution. **PBox** includes Protio's **PSystem** integrated with other necessary subsystems to give a "plug and play".

Protio's **PBox** is a solution that consists of output flexibility and integrates all the power electronics and cooling systems necessary for its operation either with DC or AC output. Protio is in charge of making a customized product for any application or client demand.



Main Parameters

Net system power

PB20-PB40

20 to 40 kW

PB65

65 kW

PB100

100 kW

PB200

200 kW

Operating system voltage [AC]

400 V

400 V

400 V

400 V

Physical

Dimensions [L x W x H]

2,4x2,2x2,2 m

2,4x2,2x2,2 m

2,4x2,2x2,2 m

2,4x2,2x2,2 mm

Weight

~2200 kg

~2400 kg

~2900 kg

~3600 kg

Humidity

5%-95%

5%-95%

5%-95%

5%-95%

Minimum start-up temperature

-20°C to 40°C

-20°C to 40°C

-20°C to 40°C

-20°C to 40°C

Reactants and Coolant

Hydrogen pressure required

8-15 barg

8-15 barg

8-15 barg

8-15 barg

Hydrogen quality [ISO 14687]

99,995 %

99,995 %

99,995 %

99,995 %

Oxidant

Air

Air

Air

Air

Air supply pressure level

< 150 kPa g

< 150 kPa g

< 150 kPa g

< 150 kPa g

Cooling Line

Coolant

De-ionized water or glycol mix

Communication Line

Interface

Modbus TCP/IP

It includes:

- ⚡ PSystem or similar PEM system
- ⚡ Power Converters
- ⚡ Cooling System
- ⚡ Air Conditioning
- ⚡ Container

All specifications are subject to change without notice.

±5% tolerance on power measurements

Painting Specification C3. It can be increased C4/C5.

DC/DC and DC/AC included.

System delivered with FAT documents and operational manual.

Customizable container.