PSystem



Fuel Cell System

PS5-PS15/PS20 /PS40/PS60



Innovation is our



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PSystem

Protio's **PS**ystem is a fuel cell power module designed to offer seamless integration into a wide range of electrification needs.

Each module consists of fuel cell stacks assembled together with essential balance-of-plant elements. Housed in a compact enclosure, these modules feature an easy-to-use single-sided interface, streamlining integration and operation processes.

PSystem gives different power solutions for mobility and stationary systems and it offers flexibility in design to suit individual customer needs.



0-450 A

Main Parameters

Physical

Net system power Operating system voltage C

Operating	system	current

Dimensions [LxWxH]
Weight
Enviromental protection
Humidity
Minimum start-up temperature

Reactants and Coolant

Hydrogen pressure required	
Hydrogen quality [ISO 14687]	
Oxidant	
Air supply pressure level	

Cooling Line

Coolant

PS 5 - PS 15	PS 20	PS 40	PS 60
5 to 15 kW	20 kW	40 kW	60 kW
19-105 VDC	47- 94 VDC	94-187 VDC	140-280 VDC

0-450 A

TBD	500x820x700	500 x 820 x 700	620 x 900 x 700
~40-80 kg	~95 kg	~120 kg	~150 kg
IP 55	IP 55	IP 55	IP 55
5%-95%	5%-95%	5%-95%	5%-95%
-20°C to 40°C	-20°C to 40°C	-20°C to 40°C	-20°C to 40°C

8-15 barg	8-15 barg	8-15 barg	8-15 barg
99,995 %	99,995 %	99.995 %	99,995 %
Air	Air	Air	Air
< 150 kPa g			

De-ionized water or glycol mix

Communication Line

Interface Modbus TCP/IP

0-320 A

All specifications are subject to change without notice.

±5% tolerance on power measurements IP protection can be increased. DC/DC and DC/AC not included.

System delivered with FAT documents and operational manual.

It includes:

- Humidifier
- ▼ Intercooler
- Air compressor
- Hydrogen manifold
- Temperature, pressure, and mass air flow sensors
- Integrated condensate trap 24 to 12 V DC-DC converter
- Check valve, isolation valve, drain valve manifold
- Air inlet and outlet manifolds
- Solenoid valves
- Level sensor



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