



hydrogen power

PP150W

Processor controlled fuel cell battery charger



Unique metal-plastic-hybrid PEM fuel cell design with integrated solar panel input

- 150 W fuel cell constant charging power (3600 Wh/d)
- 400 W solar panel input charging power
- Insufficient solar power will be automatically compensated by fuel cell backup
- Air-cooled, rigid construction for portable use
- Advanced protection system with single cell measurement for optimized performance and reliability

Backside PP150W

Dimensions: h: 100 mm
w: 230 mm
d: 290 mm

solar panel connectors
max. 400 W

battery connectors
12 V battery
lead acid / lead gel

load connectors
12 V DC output
e.g. lights, TV,
computer, etc.

priliminary data



RS-232 USB
optional: RS-485,
ethernet 10/100 Mbit

air out

hydrogen input
quality min. 5.0
pressure max. 0.5 bar

Founded 1948, our company is producing complex metal-plastic-parts in high quantities. The used punching- and injection-moulding-tools are designed and build in our own R&D Center.

In 2003 the company started to develop electrode plates for PEM fuel cells using their patented and production tested process. The production of the electrode plates as a metal-plastic-hybrid provides the possibility for efficient and automated production in reproducible high quality, using punching- and injection moulding tools. Metal provides better conduction of electric current and guarantees a sufficient removal of the process heat from the inside of the fuel cell to the integrated cooling surfaces.

It allows easy designed air-cooled stacks with an excellent power output per volume or weight.

The HP bipolar plate offers a unique, patented hybrid metal-plastic design, and is used in the newest HP compact battery charger PP150W with 150 W fuel cell charging power (3600 Wh/d). The integrated solar panel input can handle 400 W solar power. Insufficient solar power is automatically compensated by a fuel cell backup to enhance its efficiency. The system will protect the battery against damages caused by undervoltage. Performance and reliability are optimized due to our advanced protection system including single cell measurement.

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