

5 kW DC-DC Power Converter & Charging Unit

for Hydrogen Power Systems



5 kW DC-DC Power Converter & Charging Unit

- > 93% high efficiency power conversion and charging function
- Constant voltage mode and constant power mode for charging
- Adjustable power limit (max. 5 kW) and power rise/drop rate (0.5 W / sec. to 100 W / sec.)
- Full digital PWM control for switching power supply
- Input voltage 35 to 75 V, output voltage 43.2 to 57.6 V
- Six-phase interleaved boost topology
- Data exchange via RS-485 Modbus protocol for real-time remote control and monitoring
- Scalable and extendable, supports multiple units integrated in parallel systems

Item	Parameter
Rated Input	DC 35 V to 75 V, 5 kW
Rated Output	DC 43.2 V to 57.6 V
Charger	CV: 55 V CP: 100 W to 5,000 W setting
Isolated	Yes
Dimension (W x L x H)	200 x 300 x 150 mm
Communication	RS-485
Operating Temperature	-10 °C to +55 °C



More Information

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