

Need efficient outdoor power conversion for H₂ electrolyzers?

iC7-Hybrid PowerHouse is a fully enclosed outdoor power conversion solution. It is optimized for all electrolyzer applications and has an unrivaled power density with new filter technology. This fully enclosed solution is ideal for power conversion in demanding outdoor environments in any climate condition.

iC7-Hybrid PowerHouse is a complete power conversion system comprising liquid-cooled system modules with Grid Converter application software, integrated into an outdoor enclosure with low-voltage switchgear, control equipment, and a high current electrolyzer start-up and polarization unit.

Feature	Benefit
Purpose-built product dedicated to electrolyzer applications	Fit-for-purpose in your industry increases competitiveness and reduces engineering effort
Superior power density	Smaller footprint on site reduces levelized cost of hydrogen
Quality in focus – world's most reliable power converter	High uptime and low operating expenses
Supported by DrivePro Lifecycle services for global service capability	High uptime and long term planning capability
Engineering support from expert staff and a range of engineering tools	Go to market faster



HIGHLIGHTS

- Superior power density & efficiency
- Reliable liquid cooling system
- Service corridor enables service in any weather
- Modular design allows for customer-specific requirements
- Grid code compliance
- Simulation models reduce time to market

Competitive clean energy enabler



Reduces levelized cost of hydrogen

iC7-Hybrid PowerHouse optimizes the total cost of hydrogen production. In calculating levelized cost of hydrogen, it's vital to consider OPEX, CAPEX and efficiency. The iC7-Hybrid PowerHouse reduces total cost of ownership by contributing to all three of these factors.

A traditional SCR rectifier rectifies AC from the transformer and feeds the electrolyzer with DC with a high ripple factor. Unfortunately, this high ripple factor reduces electrolyzer efficiency¹].

By comparison, iC7-Hybrid PowerHouse produces an almost perfect DC with a low ripple factor for electrolyzer. This allows the electrolyzer to operate at much higher efficiency.

- Harmonic distortion of iC7-Hybrid PowerHouse towards the AC grid is typically < 3% with a unity power factor. This means no STATCOM or other compensation device is required.
- iC7-Hybrid PowerHouse supplies a clean DC current within the required DC voltage window of the electrolyzer, from beginning-of-life (BoL) to end-of-life (EoL) where the electrolyzer cell voltage typically increases.
- iC7-Hybrid power converters use the latest technology to deliver excellent power conversion efficiency

iC7-Hybrid PowerHouse is ideal for alkaline, AEM, PEM, and SOEC electrolyzers.

1] PEM and alkaline electrolyzers

MyDrive® Virtual simulation models reduce time to market

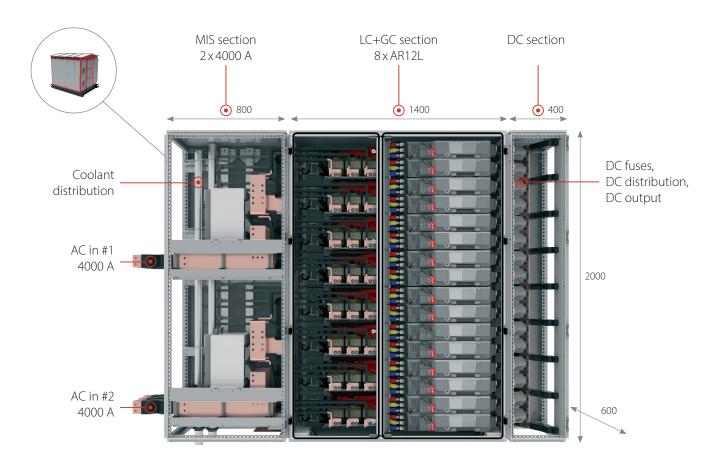
Remove constraints of the physical environment.

FMU models of Grid Converter are available for system simulation. In addition, models for tools like PSCAD and PowerFactory are available for grid simulation.









Grid Converter application software key features

Control references		Fit for purpose application features
Grid following	DC voltage control (AFE) DC power and DC current Active and reactive AC power limit controllers	 Online transition between control modes during run state Independent converter paralleling in same common AC and DC bus Fall back to open loop in case feedback is lost Filter & transformer pre-magnetization Main circuit breaker and pre-charge control I/O, fieldbus, PC and control panel control place changeover during run state Dedicated fieldbus control and status words & fieldbus customizer
Fieldbus protocols	– Modbus TCP – PROFINET RT	



Key specifications

Scalability Protection rating Liptactor rating Liptactor rating DC operating voltage range 640-1500 V DC DC output current Up to 8500 A or 2 x 4250 A Nominal AC input voltage 525-690 V 50/600 Hz 380-500 V 50/600 Hz Nominal input AC current 2 x 3850 A or 1 x 7600 A Power conversion AC-to-DC configuration. 1 or 2 individual converters enable 1 or 2 electrolyzer stacks per iC7-Hybrid PowerHouse Scalability Modular design which can be extended for customer-specific sections Protection rating IP54 outdoor rated enclosure for coastal areas Power electronics (PCBA, IGBT) installed in IP67 converter enclosures Corrosion class C5 Cooling system Liquid-cooled: Built-in liquid-to-liquid heat exchanger. CEC and Euro efficiency at 1250 V DC > 99% Harmonic grid distortion < 3%0THDI Power factor Additional features Built-in high-current electrolyzer start-up and polarization unit up to 500 A DC Protective devices Low-voltage air circuit breakers AC and DC fuses on every converter module Environment Compliance CE, Sil2 compliant converter. Planned: UL1741, CSA C222 No 107.1 Dimensions of power converter Length [mm] Width [mm] Height [mm] Width [mm] Weight [kg] VA Converted and Converted C	Ney specifications	
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Nominal Input voltage \$25-690 V 50/60 Hz 380-500 V 50/60	DC operating voltage range	640-1500 V DC
Nominal Input AC current 2 x 3850 A or 1 x 7600 A	DC output current	Up to 8500 A or 2 x 4250 A
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