

AFE – DC/DC Converter

Your Needs.

Our Design.

Tailored Premium Products.

We are not just a supplier.

We are your development partner.

Our custom power electronics solutions are built around your needs, from first concept to final product.



Design and develop **fully tailored power electronic solutions** - from converter to integrated systems - with total control over the **entire power electronics value chain**, ensuring quality and innovation at every step.



High Performance & Reliability

Our products are **engineered to meet demanding industrial standards**, with proven stability even in the most challenging environments.



Flexible & Modular Approach.

Agile development - our **modular and scalable design process** is shaped around your technical and operational needs.

APPLICATION SCENARIOS

- ✓ AFE & DC/DC
- ✓ H2 fine-tuned power conversion
- ✓ Fuel Cell power generation
- ✓ Compact size, high efficiency

KEY FACTS

- ✓ Singular & Multi-parallel
- ✓ Liquid cooling
- ✓ IEC compliant

Address

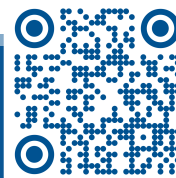
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Contacts

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AS ACTIVE FRONT END

INPUT ELECTRICAL DATA

Input Frequency	50/60 Hz
Input Nominal Voltage	Configurable up to 690 Vac
Input Nominal Current	1000 A
Power factor	0.99
THDi	Configurable by external LC Filter

OUTPUT ELECTRICAL DATA

Maximum DC Voltage	1200Vdc
Current Ripple	Configurable by external L
LC Filter	External

AS DC/DC CONVERTER

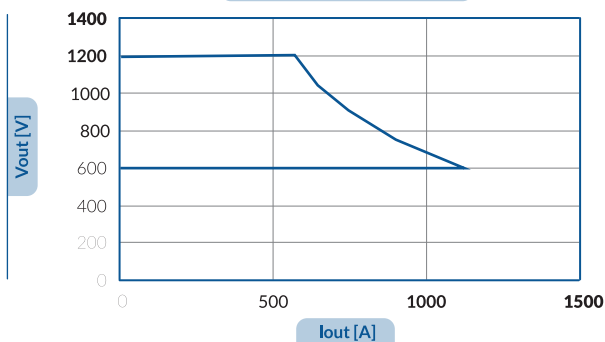
INPUT ELECTRICAL DATA

Max Input Current	1150
Input Nominal Voltage (Vin)	configurable up to 1200 Vdc

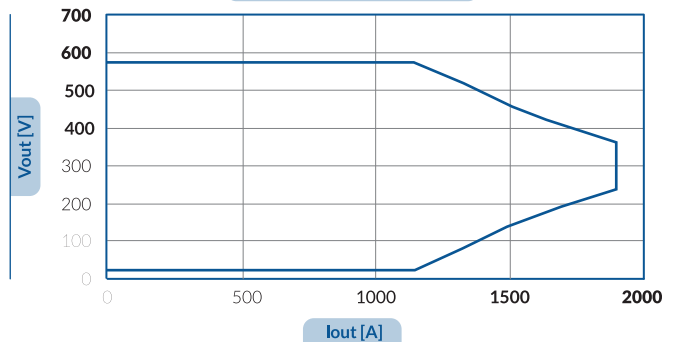
OUTPUT ELECTRICAL DATA

DC Voltage Range	0... Vin V
Max Output Current	1600 A
Current Ripple	Configurable by external L
Interleaving filter	External

Vout vs Iout @ 400Vac



Vout vs Iout @ 600V



MECHANICAL DATA

Dimension (W x D x H)	490 x 594 x 1038 mm
Weight	~100 kg
IP rating	IP20
Installation type	Wall mounted
DC-AC connection	Bare Bars

ENVIRONMENTAL CONDITIONS

Operational	-20 °C to +55 °C
Humidity	< 95%
Altitude	Up to 1000

COOLING

Cooling	Water + Air
Air power losses	<1 kW
Tmax water	40 °C higher w derating
Tmax air	40 °C higher w derating
Water flow	<25 l/h
ΔP water@rated water flow	0,8 bar
Maximum operating pressure	6 bar
Water connection	By mean of quick coupling ½"

OTHER

Max . Efficiency	98,6
Auxiliary Voltage	24V
Heatsink material	AL
Auxiliary Supply	24Vdc
SD-MCU connection	By fiber optic couple
Standards	IEC 61800-5-1, IEC 61800-3