

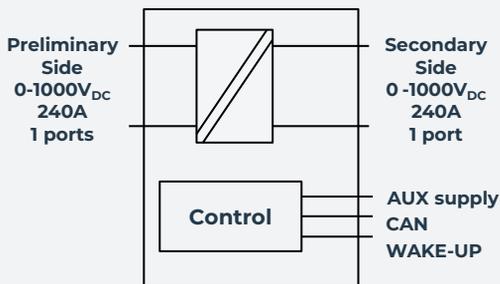
HVI MP

HIGH FREQUENCY DC Galvanic Isolator
 Input-output galvanic isolation
 Voltage up to 1000V_{DC}, current 240A
 Cutting-edge power density



KEY FEATURES

- > Input and output range: 0 to 1000V_{DC}
- > Bidirectional current capability
- > Isolated stage: 240A / 200kW max
- > Ultra-high end-to-end efficiency
- > CAN remote communication and monitoring
- > Liquid cooling
- > Weight: <12kg
- > Can be paralleled for increased power
- > Connectors and Busbars options for electrical interface



TECHNICAL SPECIFICATION

Power	
Max number of ports	1 each side
Voltage range	0V _{DC} to 1000V _{DC}
Voltage ratio	1:1
Voltage accuracy	+/-1% of full scale
Current capability	+/-240A
Current accuracy	<3% of full scale
Short circuit protection	Short-circuit protected
X Capacitance	Primary side and Secondary side : 2µF No inrush current limitation (precharge needed)
Y Capacitance	<1µF
Passive discharge time	<5 min to reach 60V
Efficiency	99% at full load
Control	
Auxiliary supply	9V _{DC} – 60V _{DC} <100µA disable mode current consumption <30W
Enable function	ON/OFF signal. Tie to ground for start-up. Internal pull up
Inrush current limitation	Not included
Environment	
Environmental protection	IP67
Altitude	Up to 4000m
Max cooling temperature	65°C outlet
Operating temperature range	From -40°C to 70°C ambient
Storage temperature range	From -40°C to 100°C
Dielectric withstand	
HV - case isolation	1950V _{DC} Basic isolation
HV - LV isolation	2500V _{DC} Reinforced isolation

BrightLoop Converters

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www.brightloop.fr

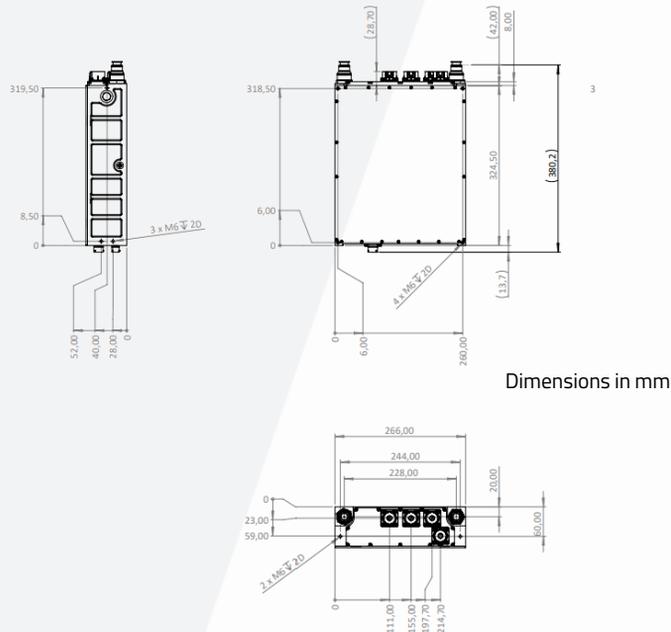
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TECHNICAL SPECIFICATION

CAN Interface	
Bus speed	125Kbps to 1Mbps (set by CAN)
Controls	Primary side Current limit +/-240A, 2A resolution
	Primary Side Voltage set point 0V to 950V, 1V resolution
	Secondary side Current limit +/-240A, 2A resolution
	Secondary side Voltage set point 0V to 950V, 1V resolution
	Power ON/OFF
Monitoring	Discharge request
	DC Galvanic Isolator Status
	Voltages and currents
	Internal auxiliary power supplies voltage
	Internal temperatures
Identification	Software & Hardware revision
Software Update	CAN Bootloader
Liquid cooling	
Pressure loss	<200mBar TBC
Maximum operating pressure*	3 barg
Maximum testing pressure	6 barg
Hydraulic connector	NORMAQUICK PS3 VDA (Mounted on NORMAQUICK PS3 NW 16-xx)
Mechanical	
Dimensions	< 320 x 280 x 80mm + connectors
Weight	<12kg
Interface	M8 fixations on each sides
Housing	Aluminum with conductive anti-corrosion treatment
Power connectors options	Amphenol PL500 & PL300 with HVIL
	Amphenol PL082 & PL084 with HVIL
Signals connector	Bus bar connection
Signals connector	8STA family (SOURIAU)

*: for higher pressure application, please contact us

OUTLINE DRAWING



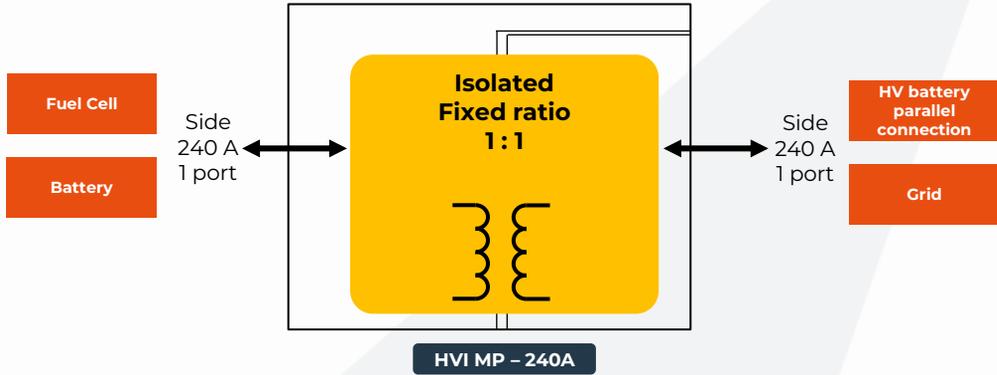
Dimensions in mm

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Ordering code logic



Part number example :



1 – Product family	2 – Voltage
DC Galvanic Isolator	HV 1000V _{DC} max
3 – Galvanic isolation	
I Isolated	
4 – Package size	5 – Product line
M Medium	P Performance
6 – Number of ports on side A	7 – Number of ports on side B
S Single	S Single
8 – Number of ports on side C	9 – Cooling option
S Single	LC Liquid cooling

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