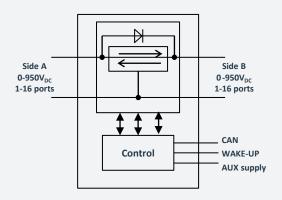
DCHV LP

HV-HV reversible Buck or Boost Converter
Voltage up to 950V_{DC}, current 960A
Power 500kW at 500V Side A
Multi inputs / outputs capability
Cutting-edge power density



KEY FEATURES

- Built-in magnetics, inductors and transformers included
- Input and output range : 0 to 950V_{DC}
- > Non-overlapping topology : V_{SideB} > V_{sideA}
- > Bi-directional current operation possible
- > Max current: 960A
- > Current and voltage control
- > CAN remote communication and monitoring
- > Weight: < 20kg
- > Can be paralleled for increased power
- > Buck-boost option available for overlapping inputoutput voltage
- > Up to 16 ports possible for multiple inputs-outputs configurations
- Connectors and Busbars options for electrical interface



TECHNICAL SPECIFICATION

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BrightLoop Converters

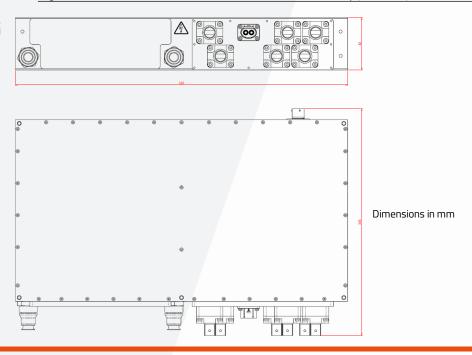
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CAN Interface			
Bus speed	125Kbps to1Mbps (set by CAN)		
•	Side A Current limit +/-960A, 2A resolution		
	Side A Voltage set point 0V to 950V 1V resolution		
	Side B Current limit +/-960A, 2A resolution		
Controls	Side B Voltage set point 0V to 950V, 1V resolution		
	Power ON/OFF		
	Discharge request		
	DC/DC Status		
	Voltages and currents		
Monitoring	Internal auxiliary power supplies voltage		
	Internal temperatures		
	Internal protections		
Identification	Software & Hardware revision		
Software Update	CAN Bootloader		
Liquid cooling			
Pressure loss	<300mBar TBC		
Maximum recommended operating	1.3bar TBC		
pressure	1.3bai TbC		
Maximum testing pressure	2.6 bar TBC		
Hydraulic connector	NORMAQUICK PS3 VDA (Mounted on		
Trydraulic connector	NORMAQUICK PS3 NW 16-xx)		
Mechanical			
Dimensions	520 x 355 x 82mm + connectors		
Weight	<20 Kg		
Interface	M8 fixations on each sides		
Housing	Aluminum with conductive anti-corrosion treatmen		
	Amphenol PL300 with HVIL		
Power connectors options	Amphenol PL082 with HVIL		
	Bus bar connection		
Signals connector	8STA family (SOURIAU)		

OUTLINE DRAWING

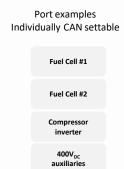


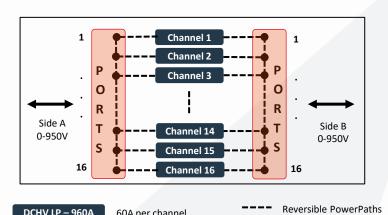
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Ordering code logic





60A per channel



Ports configuration stage

Part number example:

DCHV LP - 960A



1 - Product family		2 - Va	2 - Voltage	
DC	HV-HV non-isolated DCDC converter	HV	950V _{DC} max	
3 - Package size		4 - Pr	4 - Product line	
L	Large	Р	Performance	
5 - Number of ports on side A		6 - Nı	umber of ports on side B	
S	Single	S	Single	
D	Dual	D	Dual	
Т	Triple	Т	Triple	
Q	Quadruple	Q	Quadruple	
Р	Penta	Р	Penta	
Sx	Six	Н	Six	
Н	Hepta (seven)	He	Hepta (seven)	
0	Octo (eight)	0	Octo (eight)	
7 - Cool	ing option			
LC	Liquid cooling			
FA	Forced air			

V22.04



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