Isolated DC/DC Converter Series

150–550 Vdc input · 600–950 Vdc output · 100 / 200 / 300 kW



Product Introduction

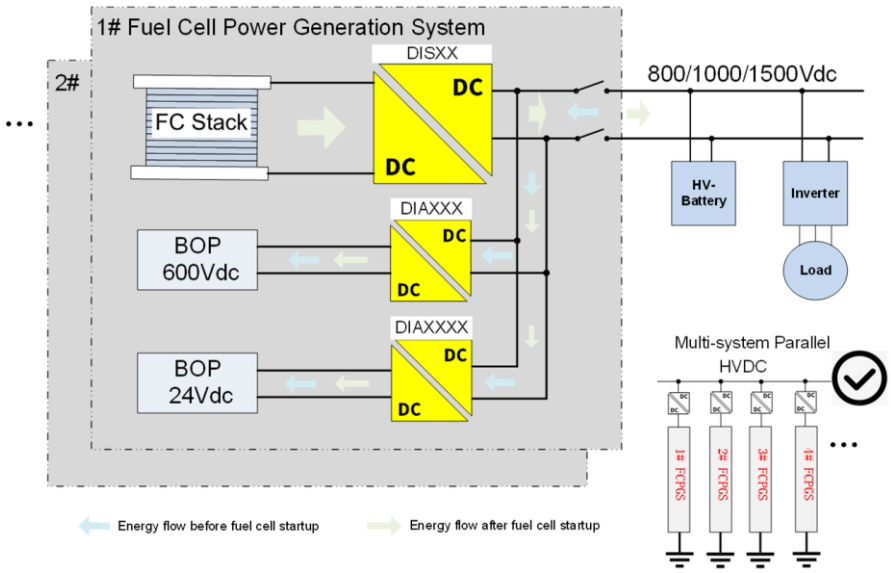
- High-power isolated DC/DC converter with 3D liquid cooling
- Power density >6kW/L, Peak Efficiency Up to 98.5%
- Wide input voltage range; integrated ZVS tech (reduces switching loss & EMI)
- Complete protection (overcurrent, overvoltage, overtemperature)
- Ideal for fuel cell, energy storage, industrial power; delivers safe, efficient HV power conversion

Function

- Flexible Adaptation: Fits all fuel cell specs, various power/voltage, cost-saving.
- Wide Application: For stationary power, rail, marine, road traffic.
- Custom Solutions: Tailored to specific power/voltage needs.
- High Safety: Full input-output insulation, 3500Vdc resistant, reliable.

Typical application

Isolated DC/DC: Eradicates cooling system insulation hazards!









Isolated DC/DC Converter Series

Technical parameters · DIS100 / DIS200 / DIS300

Technical parameters

Typical model	DIS100-XXX	DIS200-XXX	DIS300-XXX
Input Parameter			
Input Voltage Range	150-550Vdc*	150-550Vdc*	150-550Vdc*
Maximum Input Current	360A	720A	900A
Output Parameter			
Output Voltage Range	600-950Vdc*	600-950Vdc*	600-950Vdc*
Rated Input Power	100kW	200kW	300kW
Rated efficiency	97%	97%	97%
Auxiliary Power Parameters			
Power Supply Voltage Range		18～36VDC	
Auxiliary power consumption		≤80W	
Protective Function			
Undervoltage protection; Overvoltage protection; Overcurrent protection; Communication fault protection; Overtemperature protection; Output short-circuit protection			
Environmental Adaptability			
Protection Level		IP67	
Operating Temperature Range		-40～65℃	
Altitude		2000m	
Cooling Method		liquid cooling	
Communication Method		CAN2.0B	
Reference Standards		GBT24347-2021, EN 62477, ECE-R10, EN 50121, GB/T 18488 GB/T 18384, QC/T 413, QC/T 895,GB/T 18655, GB/T 17619	
Dimensions and Weight			
Dimensions (W×D×H mm)	410×360×125	410×650×125	410×840×125
Reference Weight	25±0.5kg	45±0.5kg	65±0.5kg
Optional Functions			
EIS (Electrochemical Impedance Spectroscopy)； ISO (Insulation Monitoring)； Input pre-charging circuit； Stack discharge； PDU (Power Distribution Unit)； Direct copper busbar connection			
Customization Instructions			
Note: * Represents typical voltage. We can provide customized design services with input voltage ranging from 50 - 1000Vdc and output voltage ranging from 400 - 1500Vdc according to customers' stack voltage, output bus voltage and other parameters.			

System Block Diagram

