

SSD-HH125K-D2CN

125kW DC-DC Converter | Dual MPPTs

The SSD-HH125K-D2CN is a high-performance, non-isolated, bidirectional 125kW DC-DC converter designed for advanced energy storage systems. It features two independent input terminals, each configurable for PV (with MPPT) or battery (with constant current/power control), depending on system requirements. With a wide 300–950V voltage range and high-efficiency SiC design, it's ideal for DC-coupled BESS, high-voltage battery charging, and multi-energy hybrid systems.



Bidirectional Buck-Boost
with Dual MPPT Inputs



Ultra-Wide Voltage Range:
300–950V



IP65 for Harsh Environments
(–30°C to +55°C)



Multi-Battery Compatibility
with Full Protection



SiC MOSFET for High
Efficiency and Compact Size



Flexible Control with Voltage
Current, and Power modes

TECHNICAL SPECIFICATION	
Model	SSD-HH125K-D2CN
Product Type	DC-DC Converter
COWER SPECIFICATIONS	
Rated Power (kW)	125
BUS	
Maximum DC Voltage (V)	950
Operating Voltage Range (V)	500~950
Maximum Operating Current (A)	220
Number of Power Input	1
EFFICIENCY	
Maximum Efficiency	99.00%
PROTECTION	
Reverse Polarity Protection	Yes
Surge Protection	Yes
Insulation Monitoring	Yes
Overtemperature Protection	Yes
PV (BATTERY)	
Maximum DC Voltage (V)	950
Operating Voltage Range (V)	300~950
Maximum Operating Current (A)	110 / 110
Power Input	2
MPPT Function	Available
GENERAL PARAMETER	
Cooling	Intelligent air cooling
Relative Humidity	0~95% (Non-condensing)
Operating Altitude (m)	4000 (> 3000 ,Derating)
Ingress Protection	IP65
Ambient Temperature	-30℃~+55℃ (> +45℃,Derating)
Protective Class	I
Over Voltage Category	II (DC)
Inverter Topology	Non-isolated
Machine Dimensions (W*H*D) (mm)	540*240*930
Machine Weight/N.W. (kg)	65
DISPLAY & COMMUNICATION	
Communication Interface	RS485 / CAN / Ethernet

- The AC voltage and frequency range can differ according to the grid standards of each country.
- Please note that all specifications are subject to change without prior notice.