

SD125HV

DC/DC Converter



HIGH YIELD

- Max efficiency 99%
- Wide DC input voltage range, flexible for battery configuration
- Modular design, compatible with rack level battery management



SMART O&M

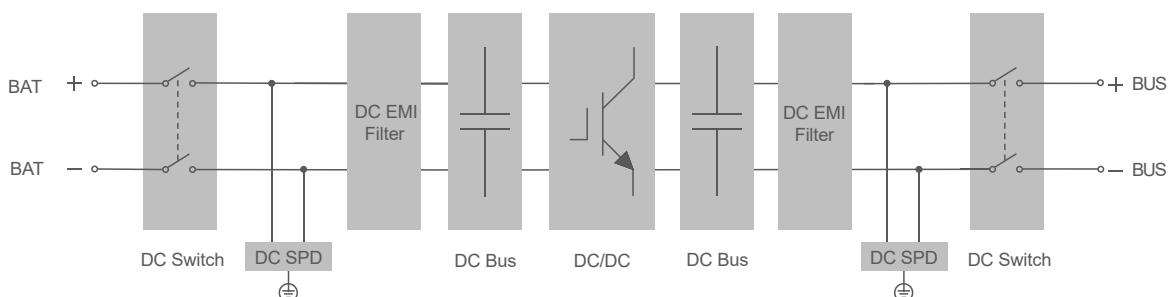
- High protection degree(IP65/NEMA 4X, C5)
- Compact design and light weight for easy installation
- Easy site commissioning & monitoring via APP



FLEXIBLE APPLICATION

- Bidirectional buck-boost design for better voltage matching
- Compatible with 1500V battery system
- MPPT function integrated, compatible with DC microgrid applications

CIRCUIT DIAGRAM



Type Designation	SD125HV
Power Rating	
Nominal power	125 kW
Max. power	169 kW
Battery Side	
Max. DC voltage	1500 V
DC operating voltage range	0 – 1500V
Max. DC current	140 A
BUS Side	
Max. DC voltage	1500 V
DC operating voltage range	500 – 1500 V
Max. DC current	140 A
Efficiency	
Max efficiency	99.0 %
Protection	
Reverse polarity protection	Yes
Surge protection	Type II
Insulation monitoring	Yes
Overheat protection	Yes
General Data	
Dimensions (W*H*D)	630*680*298 mm 24.8**26.8**11.7"
Weight	65 kg 143.3 lbs
Degree of protection	IP65 NEMA 4X
Operating ambient temperature range	-30 to 60 °C -22 to 140 °F
Allowable relative humidity range	0 – 100 %
Cooling method	Temperature-controlled forced air cooling
Max. operating altitude	4000 m (> 3000 m derating) 13123 ft (> 9843 ft derating)
Display	LED, Bluetooth + APP
Communication	RS485, Ethernet, CAN
Compliance	CE, IEC62477-1, IEC 62109-1, UL 1741