

# SD1250HV

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

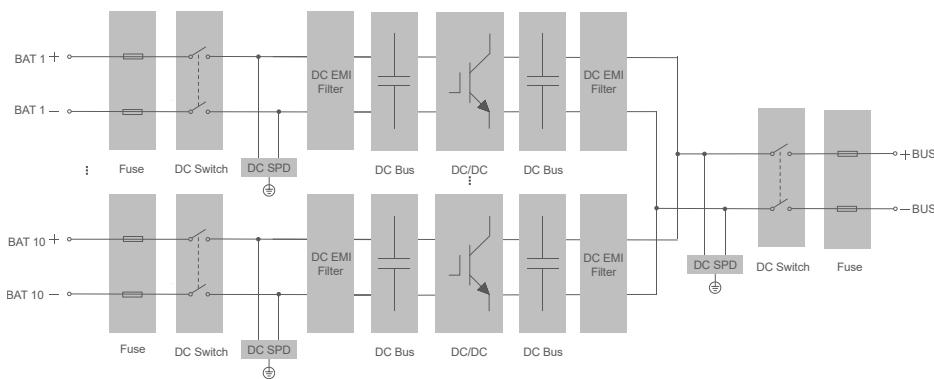
- High protection degree (IP65/NEMA 4X, C5)
- Compact design and light weight for easy installation



## 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	SD1250HV
<b>Power Rating</b>	
Nominal power	1250 kW
Max. power	1690 kW
<b>Battery Side</b>	
Max. DC voltage	1500 V
DC operating voltage range	0 – 1500 V
Max. DC current	10 * 140 A
<b>BUS Side</b>	
Max. DC voltage	1500 V
DC operating voltage range	500 – 1500 V
Max. DC current	1400 A
<b>Efficiency</b>	
Max efficiency	99.0%
<b>Protection</b>	
Reverse polarity protection	Yes
Surge protection	Type II
Insulation monitoring	Yes
Overheat protection	Yes
<b>General Data</b>	
Dimensions (W*H*D)	2140*2150*816 mm 84.3**84.6**32.1"
Weight	1200 kg 2645.5 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