

PDS1-750K-H DC-DC Converter



Features



Flexible Configuration

- 100kW to 750kW by 1 to 8 power modules.
- Wide DC range: 500Vdc-1500Vdc
- Automatically bidirectional



High Efficiency & Stability

- Peak efficiency can reach 98.96%
- Multi-string technology for better battery safety and performance.



Intelligent Collaboration

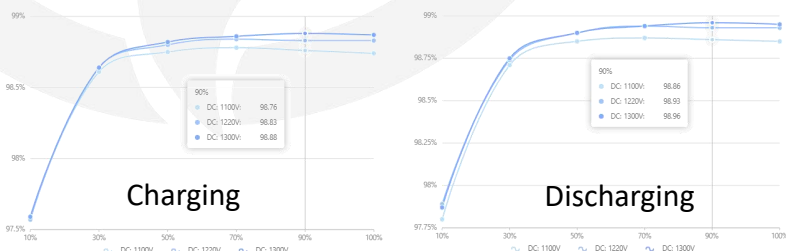
- 2/4 inputs or 1 output
- Multiple MPPTs
- Compatible with various types of battery system.



Safety & Compatibility

- Multiple-string with controls on individual module or group of modules.
- Flexible applications with PV & Battery

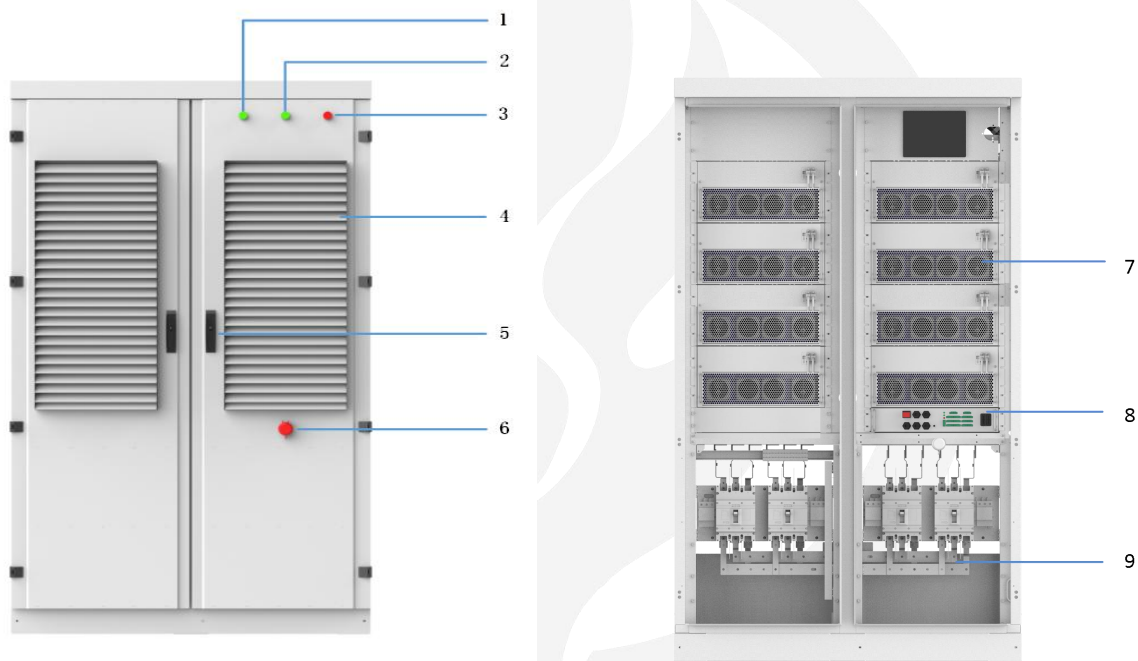
Specification

	PDS1 -750k
Nominal Power	750kW
Battery Side	
Maximum DC voltage	1500V
Voltage range	500-1500V
Nominal voltage	1000V
Nominal current	750A
Maximum current	825A
Bus Side	
Maximum DC voltage	1500V
Voltage range	500-1500V
Nominal voltage	1000V
Nominal current	750A
Maximum current	825A
Physical	
Cooling	Forced air cooling
Noise	< 85dB
Enclosure	IP54
Max elevation	3000m (> 3000m derating)
Operating temp.	-20°C to 50°C (De-rating over 45°C)
Humidity	0~95% (No condensing)
Size (W*H*D)	1200*2100*970mm (TBD)
Weight	Cabinet 292kg + Module 51kg*n (n=1,2,...,8)
Installation	Floor Standing
Other	
Efficiency curve	
Peak efficiency	98.96%
AUX power supply	Built-in
Protection	OTP, EPO, Fan/Relay Failure, OLP, Reverse connection protection
Configurable protection limits	Battery EOD voltage.

Specification

Display	LED lights on the front for operating mode, alert, and error state. Built-in LCD screen for operation. WIFI control through smart phone
Cable Entry	Bottom
Communication protocols	Modbus TCP/IP
Communication sockets	RS485, CAN, Ethernet
Isolation	Non-isolation
System monitoring	Real-time monitoring with automated alerts and data storage
Compliant	CE LVD IEC 62109/62477, CE EMC IEC 61000, UL1741(Pending)

Appearance



Appearance of bidirectional DC converter

Position	Designation	Description
1	Power (POWER) indicator	
2	Running (RUN) indicator	
3	FAULT indicator	
4	Air intake shutters	
5	Door lock	
6	Emergency stop knob	
7	PCS-DC-H (1~8 module(s))	
8	Control box panel	
9	Bus side positive wiring copper bar	