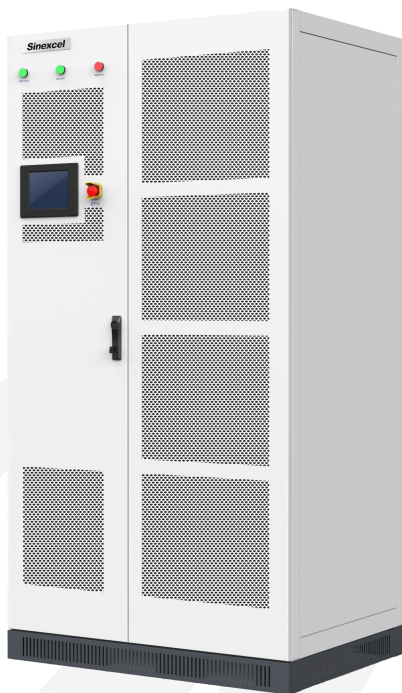


PDS1-400K DCDC Converter



Features



Flexible Configuration

- 50kW to 400kW by 1 to 8 power modules.
- Wide DC range: 250Vdc- 900Vdc
- Indoor and outdoor installation with optional NEMA3R enclosure



High Efficiency & Stability

- Maximum efficiency can reach 98.6%
- Multi-string technology for better battery safety and performance.



Extensive Use

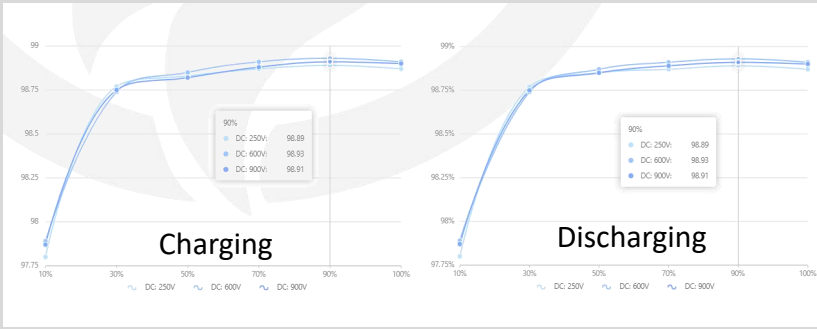
- 8 inputs or 1 output
- Multiple MPPT
- Compatible with various types of battery system.



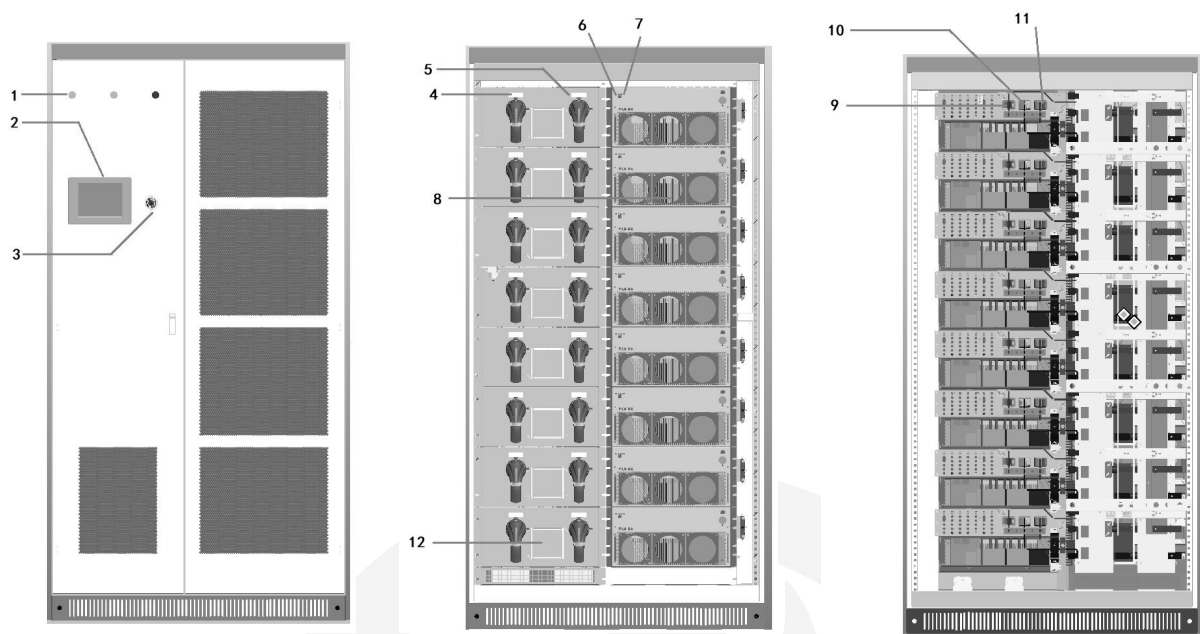
Safety & Compatibility

- Multiple-string with controls on individual module or groups modules.
- Global certified & listed

Specification

PDS1-400K	
LV PV input mode	
HV DC bus voltage	LV voltage+40V ~ 900V
HV DC bus current	0~130A×8
LV PV input voltage	250~800V
LV PV input current	0~130A×8
Power rating	50kW×8
LV battery dis-/charge mode	
HV DC bus voltage	LV voltage+40V ~ 900V
HV DC bus current	0~130A×8
LV battery voltage	250~800V
LV battery current	0~130A×8
Power rating	50kW×8
Physical	
Cooling	Forced air cooling
Noise	< 75dB
Enclosure	IP20/NEMA1
Max elevation	3000m/10000feet (> 3000m/10000feet derating)
Operating ambient temperature	-20℃ to 50℃ (De-rating over 45℃)
Humidity	0~95% (No condensing)
Size (W×H×D)	1100×2160×800mm
Weight	Cabinet 280kg + Module 40kg*n (n=1,2,...,8)
Installation	Floor standing
Other	
Efficiency curve	
Peak efficiency	98.60%
Protection	OTP, OVP/UVP, EPO, Fan/Relay Failure, OLP
Configurable protection limits	Upper/Lower Voltage, Battery EOD voltage.
Display	Touch Screen
Communication	RS485,CAN,Ethernet
Isolation	Non-isolation
Compliant	CE LVD IEC 62109/62477, CE EMC IEC 61000, UL1741

Appearance



Visible Components of the PDS1-400K

Position	Designation	Description
1	Indicator lights	The fault light is red in case of fault and off in case of normal; The operation indicator and power indicator are green
2	Touch Screen	
3	EPO (Emergency Power Off)	
4	Low voltage side switches	Load disconnecter
5	High voltage side switches	Load disconnecter
6	Module operation indicator	
7	Module fault indicator	
8	DC module (1~8 module(s))	50KW per unit
9	Low voltage Bus Bar	
10	Negative Bus Bar	
11	High voltage Bus Bar	
12	SPD	DXH06-F-3DC1000R40 NDB2-63C63/3