

PDS1-45M/60M PVDC Converter



Features



Flexible Configuration

- Compatible with 19-inch rack for easy installation & installation
- Modular design



High Efficiency & Stability

- High power density
- Maximum power up to 45kW



Extensive Use

- Built-in MPPT *3
- Wide voltage range of 200~810V
- Support controllable by PCS & EMS



Safety & Compatibility

- Active protections

Specification

Model	PDS1-45M	PDS1-60M
PV Side		
Rated Power	45kW	60kW
Rated Input Voltage	600V	600V
Maximum Input Voltage	1100V	1100V
Start-up Voltage	250V	250V
MPPT Voltage Range	200~830 V (430~750 @full load)	200~1000V (575~900 @full load)
Number of MPPT	3	3
Number of MPPT Input String per Circuit	2	2
Maximum Input Current of each MPPT	35A/35A/35A	35A/35A/35A
DC Bus Side		
Rated Allowable Power	45kW	60kW
Maximum Output Voltage	700V	700V
Working Voltage Range	PV voltage+40V~830V	PV voltage+40V~1000V
Rated Current	65A	86A
Maximum Working Current	65A	86A
Protections		
PV Reverse Connection Protection	Yes	
Insulation Impedance Detection	Yes	
PV Side Switch	Yes	
Temperature Protection	Yes	
DC Arc Detection	Optional	
PID Repairment	Optional	
PV SPD	L2 Lightning Protection	
Bus SPD	L2 Lightning Protection	
Terminal Type		
DC Bus terminal	OT	
PV Terminal	MC4	
General Specification		
Peak Efficiency	>99%	
Dimension(W*H*D)	440*175*580mm	
Weight	22kg	
Noise	≤70dB	
IP Rating	IP66	

Specification

Operating Temperature	-20~60°C
Cooling Method	Air Cooling
Operating Humidity	0~95% (No Condensation)
Operating Altitude	4000m (>3000m derating)
Display and Communication	
Display	LED
Communication	RS485, RS232 (Reserve), CAN (Reserve)
Installation	Wall Mounting/ Module
Safety Certification	IEC62109-1, UL 1741

