

DCD-M DC-DC Converter

DC-DC Bi-directional converter for DC copuled energy storage solutions.

FOR UTILITY-SCALE SOLAR

Bi-directional DC/DC Converters, with a three-level topology, have the advantages of higher efficiency, smaller size and less EMI interference. They can be switched between high and low DC voltages and can be connected to PV panels for maximum power tracking or to AC/DC for load power supply via MPPT mode.

Adaptability

- Wide DC voltage range
- Low voltage side supports 0V start

Intelligent

- Support batteries and direct PV input
- Constant voltage/current/power, boost/buck MPPT

Efficient

- Maximum operating efficiency above 99%
- Operate independently or in parallel

Reliable

- Support connection with BMS and EMS
- Ccomplete fault protection function



TECHNICAL SPECIFICATIONS

Model	DCS100	DCS200	DCS300	DCS400	DCS500
Low-voltage side					
Rated Power (kW)	100	200	300	400	500
Input Voltage Range (V)	0-900				
Max. Current (A)	200	400	600	800	1000
High Voltage Side					
Voltage Range	300-1000				
Max. Current (A)	160	320	480	640	800
Efficiency					
Max. Efficiency	> 99%				
General Data					
Mode	Constant voltage, constant current, constant power, booster MPPT, Step-down MPPT				
Parallel Operation	Support full mode multi-machine parallel				
Secondary Function	Low voltage side starts at 0V				
Protection	Reverse protection, short circuit protection, over temperature protection, over and under voltage protection, over current protection,				
Transformer	/				
Operation Temperature (°C)	-25 - 55 (>45°C derating)				
Relative Humidity (RH)	0-95%				
Altitude (m)	4000 (2000m derating)				
Cooling Mode	Air Cooling				
Display	7 Inch Screen				
Communication	RS485				
Weight (kg)	350	400	450	500	550
Dimensions W*D*H (mm)	800*1000*2160				
Protection Class	IP56				
Standard					
Certification	EN IEC 62109-1, EN IEC 62109-2, IEC 62116				

