

Bidirectional DCDC module (20kW / 15kW)



The DCDC module adopts high-frequency isolation bidirectional conversion technology, soft switching resonance technology, high efficiency, bidirectional flow of converter energy, and automatic conversion of charge and discharge; Adopt DSP+CPLD design, support module parallel function, support CAN/RS485 communication, convenient for communication and control with third-party equipment.

The DCDC module supports MPPT photovoltaic access, integrates MPPT function, and is widely used in the application scenarios of common DC Bus, such as solar storage and charging, storage and charging, storage and charging inspection, battery cascade utilization energy storage, vehicle-grid interaction V2G and other scenarios, battery and DC Bus high frequency Isolation, It is more suitable for DC Microgrid application.

HIGHLIGHT



Safe and reliable

- Full high frequency isolation design, ensure safety between battery and DC Bus
- Multiple security protection



Flexible configuration

- Modular design for easy maintenance
- Support multi-module parallel expansion



Smart and friendly

- Ultra wide voltage range
- Intelligent fan speed regulation to reduce power consumption and noise



High efficiency

- DCDC adopts soft switching resonance technology, the highest efficiency is 97%



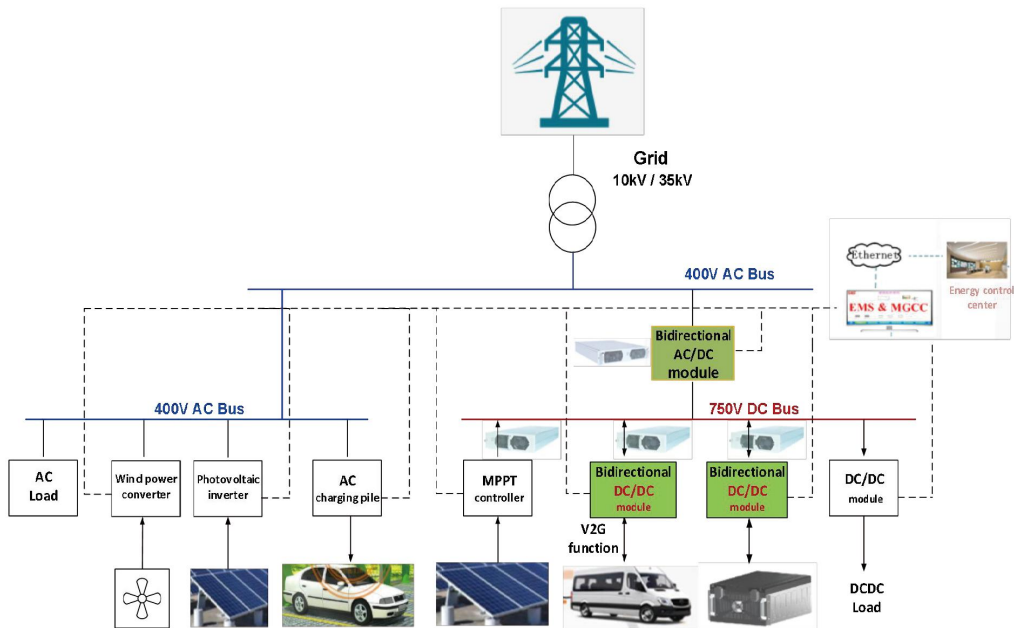
Support MPPT photovoltaic access

- Supports MPPT photovoltaic access, integrates MPPT function, and applies to common DC Bus scenarios

APPLICATION



- DC Micro-grid
- Storage and charging, solar storage and charging, storage and charging inspection of common DC Bus



Product name		Bidirectional high frequency isolation DCDC module	
Product model		BIDC75040	BIDC300100
Charging			
DC side	Voltage range	600 ~ 850VDC	600 ~ 850VDC
	DC current	≤32A	≤25A
Battery side	Voltage range	200 ~ 750VDC	40 ~ 300VDC
	Output current	40A Max	100A Max
	Rated power	20kW	15kW
	Efficiency	97% Max	
	Voltage stabilized accuracy	±0.5%	
	Current stabilized accuracy	±1%	
	Ripple ratio	<1%Vo	
	Soft start time	3s≤t≤8s	
Discharging			
Battery side	Voltage range	200 ~ 750VDC	40 ~ 300VDC
	Output current	40A Max	100A Max
DC side	Voltage range	600 ~ 850VDC	600 ~ 850VDC
	Rated power	20kW	15kW
	Efficiency	97% Max	
Other properties			
Protect function	OV protection	Have	
	OC protection	Have	
	SC protection	Have	
	OT protection	Have	
Other parameter	Operating temperature	-30 ~ 65°C, 55°C above output power derating	
	Storage temperature	-40 ~ 75°C	
	Noise	<60dB	
	Dimension	226*86*575mm (W*H*D)	
	Weight	11 Kg	10 Kg
	Protection	IP20	
	Cooling	Intelligent speed regulation, forced air cooling	
Certification	GB/T 34120-2017/GB 9254-2008		