

UXC95050B

20kW@950V DC-DC Isolated Bi-directional Charging Module



+ Introduction

UXC95050B power module is a DC-DC module designing for direct micro-grid. This module has competitive advantage in wide range of voltage and high efficiency. It also contains high level of protection, power density and wide range of working temperature as core features. UXC95050B can be widely used in interaction between DC bus side and battery side, such as energy storage, PV, ESS and charging, battery cascade utilization, data center and other multi-energy complementary scenarios.

+ Excellent performance advantages

Ultra-wide **200~950V**
output voltage range : **200~950V**

UXC95050B has ultra-wide input and output working voltage range: 200~950Vdc in DC bus side; 200~950Vdc in battery side. This product will meet the requirement of DC bus energy interaction in various level of voltage.

Support every level of DC buses input.

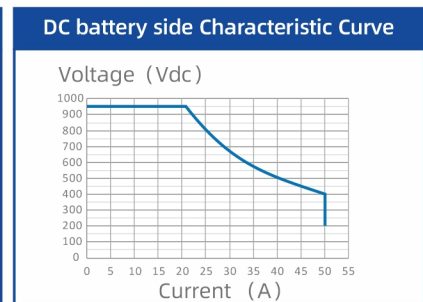
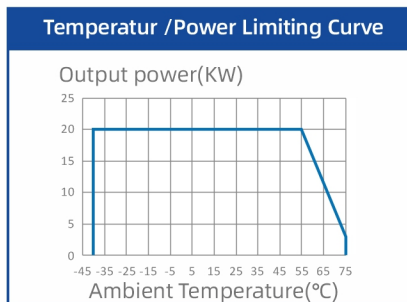
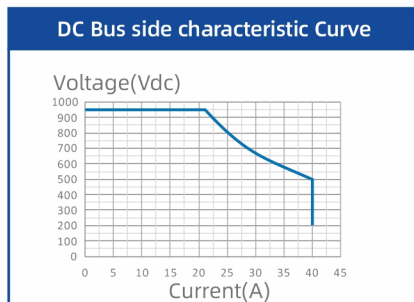
Outstanding
conversion efficiency: **99%**

UXC95050B as a high-frequency isolated power module has outstanding 99% conversion efficiency. The conversion efficiency in full loaded situation is 98.5% and it will reduce sharply system energy consumption.

Higher efficiency lower consumption.

+ CORE ADVANTAGES

- Wide working output voltage, DC bus side 200V~950V, Battery side 200V~950V;
- Working temperature -40°C ~ 55°C (Full loaded) ;
- Full-load working efficiency $\geq 98.5\%$;
- High safety & reliability, high frequency isolation transformer;
- High power density, saving system space;
- Semi-independent air duct design, suitable for all environment;



Item		Specifications
Basic Specifications	Dimensions	85mm (H) ×226mm (W) ×376mm (D)
	Weight	≤ 9.5kg
	Efficiency (full load)	>98.5%
	Cooling Mode	Forced air cooling
	Communications bus protocol	CAN bus
	No. of Parallel Modules	≤60pcs
DC Bus side characteristic	Indicator	Green: normal operation Yellow: alarm Red: fault
	Voltage Range	200Vdc~950Vdc
	Current Range	0~40A
	Steady Voltage Accuracy	≤±0.5%
	Steady Current Accuracy	≤±1% (Output power in 20%~100%)
	Ripple Voltage Peak Value	≤1%
DC battery side Characteristic Curve	Current Sharing Imbalance	≤±5%
	Voltage Range	200Vdc ~ 950Vdc
	Current Range	0 ~ 40A
	Steady Voltage Accuracy	≤±0.5%
	Steady Current Accuracy	≤±1% (Output power in 20%~100%)
	Ripple Voltage Peak Value	≤1%
Environmental Specifications	Current Sharing Imbalance	≤±5%
	Operating Temperature	-40°C ~ +75°C, output derating at above 55°C
	Storage Temperature	- 40°C ~ + 75°C
	Relative Humidity	≤ 95% RH, non-condensing
	Altitude	≤2000 m. Full power;> 1000m, the operating temperature decreases by 1°C for each additional 100m.
Protection Specifications	MTBF	>500,000 hours
	Input Over/Undervoltage Protection	Automatic recovery after power-off
	Output Overvoltage Protection	Manual recovery after power-off
	Overcurrent and Short-circuit Protection	Manual recovery after power-off
	Over temperature Protection	Automatic recovery after power-off