UXR100030B

30kW@1000V DC Charging Module



+ Introduction

UXR100030B is a charging power module designed to overcome the bottleneck of charging station industry with prominent advantages of ultra-high full load working temperature and ultra-wide constant power range in the industry. At the same time, key features of this module include high reliability, high efficiency, high power factor, high power density, wide output voltage range, low noise, low standby power consumption and good EMC performance.

+ Excellent performance advantages

Ultra-high full load working temperature: 55 ∘ c

Charging station is a product used for outdoor applications. During summer, temperature at air intake is normally 50 to 55°C, thus thermal dissipation is a serious problem for charging power module. Most of the modules on market which cannot withstand the high temperature environment (ambient temperature limit for full load working condition is usually 50°C in the industry) could only operate in derating condition by limiting output power and therefore the charging speed is hugely reduced.

UXR100030B works at full power under 55°C ambient temperature, ensuring fast charging speed in high temperature environment.

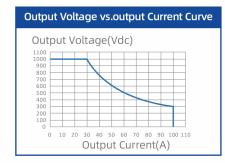
Ultra-wide output constant power range: 300_V – 1000_V

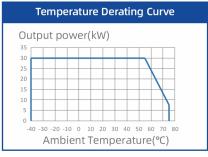
For improving the mileage range of electric vehicles, increasing the capacity and voltage of power battery will become a trend in the future. Now, the maximum output voltage of the mainstream DC module in the market is 750V, and the maximum output power is 20kW. And UXR100030B output voltage range is 100-1000V. Under the range of 300V~1000V output voltage, it can achieve 30kW constant power output.

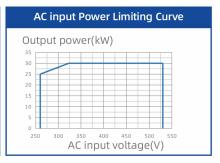
UXR100030B ultra-wide output voltage range and ultra-high output power is suitable for different types EVs charging, and improves greatly fast charging speed.

+ Key features

- · Ultra wide output voltage,100~1000Vdc, suitable for different types EVs;
- · Ultra high output power, under 300V~1000V output voltage, 30KW constant power output;
- · Full-power wide working temperature, -40~55°C;
- Full-load working efficiency ≥ 95.5%, high efficiency in full working range, extra energy saving;
- · Ultra low noise, improving user experience;
- · No current retraction in low voltage range, faster charging rate;
- · Pass CE、TUV and UL Certifications, meet ROHS requirements;
- Built-in residual voltage releasing circuit, lower cost and higher reliability;







Item		Specifications
Basic - Specifications -	Dimensions	85mm (H) ×360mm (W) ×459mm (D)
	Weight	≤ 20 kg
	Efficiency (full load)	>95.5%
	Standby Power Consumption	<13W
	Cooling Mode	Forced air cooling
	Communications bus protocol	CAN bus
	No. of Parallel Modules	≤60pcs
	Indicator	Green: normal operation Yellow: alarm Red: fault
Input Characteristics -	Input Voltage	260Vac ~ 530Vac,Three phase+Protective Earth
	Input Current	<60A
	Grid Frequency	45Hz~65Hz
	Power Factor	≥0.99
	ITHD	≤5%
Output Characteristic	Output Power	30kW@output voltage≥300Vdc
	Voltage Range	100Vdc~1000Vdc, defaut value: 200Vdc
	Current Range	0A ~100A
	Voltage stabilized accuracy	≤±0.5%
	Current stabilized accuracy	≤±1%
	Current Sharing Imbalance	≤±3%
	Ripple voltage peak value coefficient	≤1%
Environmental Specifications	Operating Temperature	-40℃~+75℃,output derating at above 55℃
	Storage Temperature	- 40°C ~ + 75°C
	Relative Humidity	≤ 95% RH, non-condensing
	Altitude	≤2000 m. Full power;> 1000 m, the operating temperature decreases by 1°C for each additional 100 m.
	MTBF	>500,000 hours
Protection Specifications	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