Module Power Supply Product Catalog

UXR100030B

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30kW@1000V ClassB ACDC Charging Power Module



+ Introduction

UXR100030B is a charging power module specifically engineered to address the challenges faced by the charging station industry, boasting prominent advantages such as an ultra-high full-load working temperature and an ultra-wide constant power range within the industry. Additionally, this module features high reliability, efficiency, power factor, and power density, along with a wide output voltage range, low noise, minimal standby power consumption, and excellent EMC performance.

+ Excellent advantages

Ultra-wide output voltage range of

Ultra-wide output voltage range, suitable for a wide range of EVS.

Semi-independent air duct design

Higher protection for high-voltage components inside the module to improve adaptability and reliability.

Ultra-wide output voltage range, suitable for various electric vehicle charging scenarios, designed for ultra-fast chargers.

Ultra-wide output

constant power range: 300v-1000v

UXR100030B provides an output voltage range of 100-1000V enabling constant power output of 30kW within the 300V~1000V

Electromagnetic compatibility

meets Class B

Electromagnetic compatibility conforms to Class B exhibiting minimal electromagnetic radiation and robust resistance to interference.

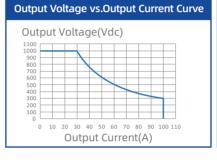
Meets CE/UL certification requirements, complies with IEC-61851-21 standard for EMC Class B.

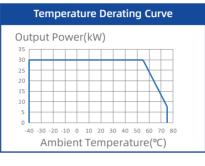


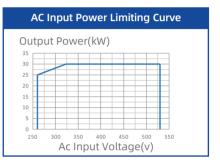
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+ Key features

- · Ultra wide output voltage range,100~1000Vdc, suitable for different types of EVs;
- · Ultra high output power within 300V~1000V output voltage range, 30KW constant power output;
- · Full-power wide working temperature range , -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;
- · Built-in residual voltage releasing circuit, lower cost and higher reliability;
- · Complies with CE/UL certification requirements, suitable for global applications;







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	Fan cooling
	Communications bus protocol	CAN bus
	No. of Parallel Modules	≤60pcs
	Indicator	Green: normal operation Yellow: alarm Red: fault
Input	Input Voltage	260Vac ~ 530Vac,3P+PE
	Input Current	<60A
	Grid Frequency	45Hz~65Hz
	Power Factor	≥0.99
	ITHD	≤5%
Output	Output Power	30kW@output voltage≥300Vdc
	Voltage Range	100Vdc~1000Vdc, default 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 Conditions	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	≤2000m
	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