

UXR100030B

RoHSCECBUK







30kW@1000V ClassB AC/DC Charging Power Module



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.

+ Application scenarios

-  PV-ESS-charging system
-  Public - operated charging point

-  Highway service areas
-  Mobile charging equipment

+ Excellent advantages

Ultra-wide output voltage range of **100-1000**_{vdc}
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.

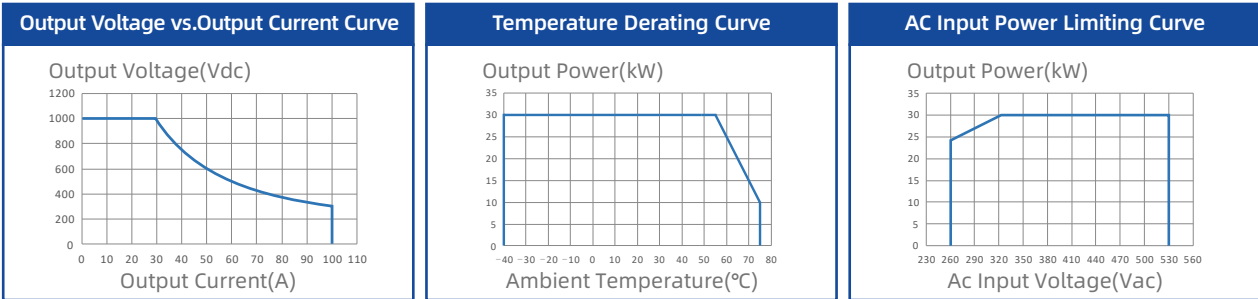
Ultra-wide output constant power range: **300-1000**_{vdc}
UXR100030B provides an output voltage range of 100-1000V, enabling constant power output of 30kW within the 300V~1000V range.

EMC **Class B** compliance
Low electromagnetic radiation and strong interference resistance.

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

+ Key features

- Ultra wide output voltage range of 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
	Communication Bus Protocol	CAN bus
	No.of Parallel Modules	≤60pcs
	Indicator	Green: normal operation Yellow: alarm Red: fault
Input Characteristics	Input Voltage	260Vac ~ 530Vac,3P+PE
	Input Current	< 60A
	Grid Frequency	45Hz~65Hz
	Power Factor	≥0.99
	iTHD	≤5%
Output Characteristics	Output Power	30kW@output voltage≥300Vdc
	Voltage Range	100Vdc ~ 1000Vdc, default value: 200Vdc
	Current Range	0A ~100A
	Voltage Stabilization Accuracy	≤±0.5%
	Current Stabilization Accuracy	≤±1%
	Current Sharing Imbalance	≤±3%
	Ripple Voltage Peak Value Coefficient	≤1%
Electrical Isolation Method	Electrical Isolation Method	High Frequency Isolation
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	No derating@ 2000m. When altitude ≥ 2000m, operating temperature decreases by 1°C for every 100m. The actual altitude value needs to be set @1000m
	MTBF	> 500,000 hrs
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