



X60200B1-IP65

60kW CHARGING MODULE

IP65 High Protection Level

PRODUCT INTRODUCTION

The **X60200B1-IP65** 60kW high-performance charging module incorporates advanced technology and a robust design, featuring enhanced power electronics and thermoelectric isolation for optimal heat dissipation. This innovative design enables the module to achieve an IP65 protection rating, ensuring reliable operation in demanding environments such as mining truck charging, offshore charging, and construction sites, where high dust, humidity, and elevated temperatures are prevalent.

Key Features

- **Long Lifespan:** Designed for durability, with a lifespan exceeding 10 years.
- **High Efficiency:** Achieves an impressive overall efficiency > 96% @300~1000Vdc.
- **Grid Friendly:** THDi < 3%, PF(cosφ) > 0.999 @50%~100% output power.



High Protection IP65



High Efficiency 97.5%



Low Noise to 55dB

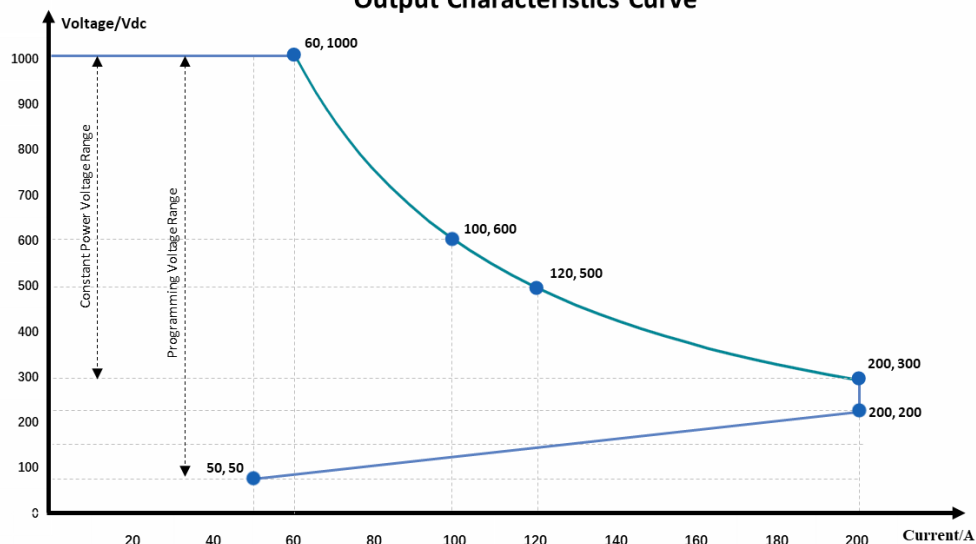


EMC Class B

APPLICATION SCENARIOS

- High Protection Standalone Fast Charging Stations
- High Protection Vehicle Battery Swapping Stations
- High Protection Group DC EV Charging Systems
- Mining Truck, Construction Vehicle Megawatt Chargers
- E-boat Charging Stations

Output Characteristics Curve



PRODUCT SPECIFICATIONS

Item	Product Model	X60200B1-IP65
AC Input	Voltage Range	260~485Vac (323-260Vac derates linearly to 75% P/n)
	Current	110A max
	Frequency	Rated 50Hz, 50/60Hz±10Hz
	Wiring Method	3Phase, 3W+PE
	THDi	≤3% @50%~100% load
	Power Factor	≥0.99 @50%~100% load
	Start-up Current Surge	≤110% rated max current
DC Output	Voltage Range	50~1000Vdc
	Current	200A max
	Rated Power	60kW @300-1000Vdc
	Voltage Stabilization	≤ ±0.5%
	Current Stabilization	≤ ±1%
	Voltage Ripple	≤ 1%
	Start-up Voltage Surge	≤ 105% of the setting value
	Conversion Efficiency	Over all ≥ 96% @full load, 300~1000Vdc
General Specifications	Standby Power Consumption	0W (external control), or ≤12W
	Protection Level	IP65
	Current Sharing	< 5% @50%~100% full load
	EMI Compliance	Meet Class B
	Noise	Full load 55dB@25°C; 65dB@35 °C; super low to 50dB
	Dimension	400*525*148mm (W*D*H, mm)
	Weight	≤ 34kg
Communication	Interface	CAN2.0B, Bitrate 125kbps
	Parallelation	30 modules max
	ID Setting	software setting or pre-set via dialer
	OTA	support via the charging system
Operation Condition	Operation Temperature	-40°C~+75°C (derates above 55°C)
	Operation Humidity	5%~95% RH, non-condencing
	Operation Altitude	≤ 3000m (derates above 3000m)
	Corrosion Resistance	operation shall be free from harmful gases or conductive media that could corrode metals or damage insulation
Protection	Temperature Protection	automatically shuts down when temperatures exceed 75°C and reverts to standby mode once normal temperatures are restored
	Input OVP, UVP, phase lose	automatically shuts down in the event of abnormal input voltage and returns to standby mode when input conditions normalize.
	Over Current, Short Circuit	manually restart following an automatic shutdown
	Output Over Voltage	protection settings through software or utilize built-in hardware

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Disclaimer: The specifications of this catalog is for reference only; the performance of the products may vary from different application scenarios and environment. Product specification is subject to change without prior notice.