



X30100B2

30kW CHARGING MODULE

PRODUCTION INTRODUCTION

The intelligent X30100B2 AC/DC charging module is designed for high-power EV charging equipment. It applies the leading power electronic control topology in the world and offers good performance, high power density, high efficiency, low noise, and a wide output voltage range. It is designed to meet current and future EV charging requirements, with full load capacity in a wide ambient temperature range, making charging available in hot summers and cold winters. This module features complete gel filling and can be applied in EV charging stations in most countries across the world.



Low Noise 55dB



High Efficiency 97.2%



EMC Class B



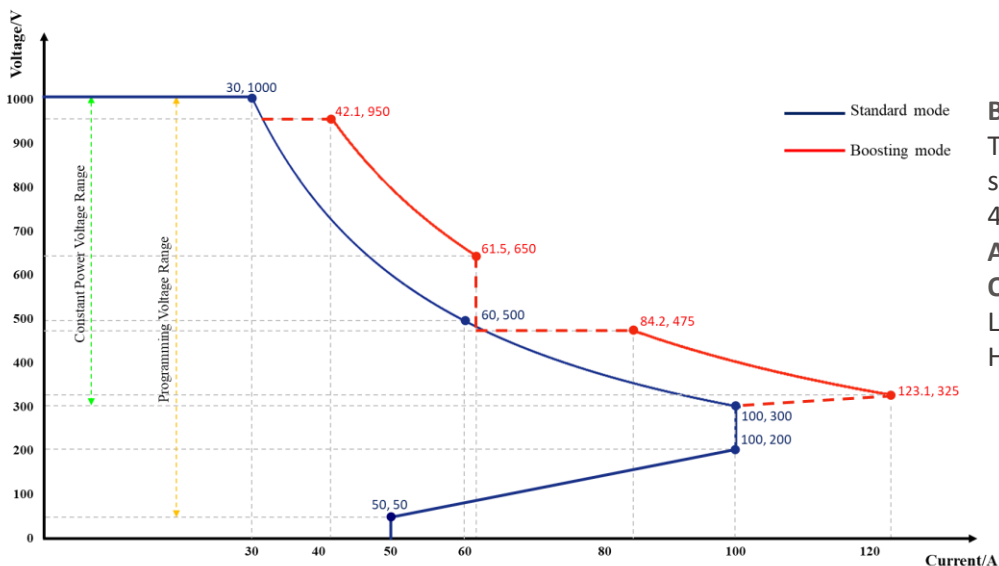
30/40/50/60kW

APPLICATION SCENARIOS

- Wall-mount DC Chargers
- Standalone Fast Charging Stations
- Vehicle Battery Swapping Stations
- Group DC EV Charging Systems



Boosting Power



Boost Power Mode:

The X30100B2 charging module supports boosting mode up to 40kW under:

Ambient Temp.: $\leq 35^{\circ}\text{C}$

Output Voltage:

Low voltage 325~475Vdc

High voltage 650~950Vdc

X30100B2 SPECIFICATIONS

AC Input	Voltage Range	260~485Vac (derates under 323Vac)
	Current	60A max
	Frequency	Rated 50Hz, 50/60Hz±5Hz
	Wiring Method	3W+PE, 3P
	THDi	≤5% @50%~100% load, ≤3% @100% load
	Power Factor	≥0.99 @50%~100% load
	Start-up Current Surge	≤110% rated max current
DC Output	Voltage Range	50~1000Vdc
	Current	100A max
	Rated Power	30kW @300-1000Vdc
	Voltage Stabilization	≤±0.5%
	Current Stabilization	≤±0.5% @-30°C~+55°C, 20%~100% load current
	Voltage Ripple	≤1%
	Start-up Voltage Surge	≤105% of the setting value
	Load Dropout Voltage Transient	the greater one of overshoot voltage ≤8% of the demand voltage before a sudden drop or ±50V
	Conversion Efficiency	≥96.8% @ full load, peak ≥97.2%
General Specifications	Standby Power Consumption	≤2W (external control), or ≤10W
	Protection Level	IP20, complete gel-filled
	Current Sharing	≤5% @50%~100% full load
	Voltage Mode Switch Time	≤600ms, mode switch between parallel mode and series mode
	EMC Compliance	Class B
	Noise	≤55dB @25°C (full load, 400Vac/400Vdc)
	MTBF	≥500khrs (as per SR-332)
	Dimension	385*390*110 (W*D*H, mm)
	Weight	≤22kg, gel-filled
Communication	Interface	CAN2.0B, Bitrate 125kbps
	Parallelation	60 pieces max
	ID Setting	software setting or fixed 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-condensing
	Operation Altitude	≤2000m, above derates
	Surrounding Environment	no harmful gases or conductive media in the air that corrode metals or damage insulation
Protection	Over Temp. Protection	shutdown automatically, recover to standby mode after temp. is normal
	Input OVP, UVP, phase lose	shutdown automatically, recover to standby mode after input is normal
	Over Current, Short Circuit	shutdown automatically and restore manually
	Output Over Voltage	software setting or hardware protection

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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.