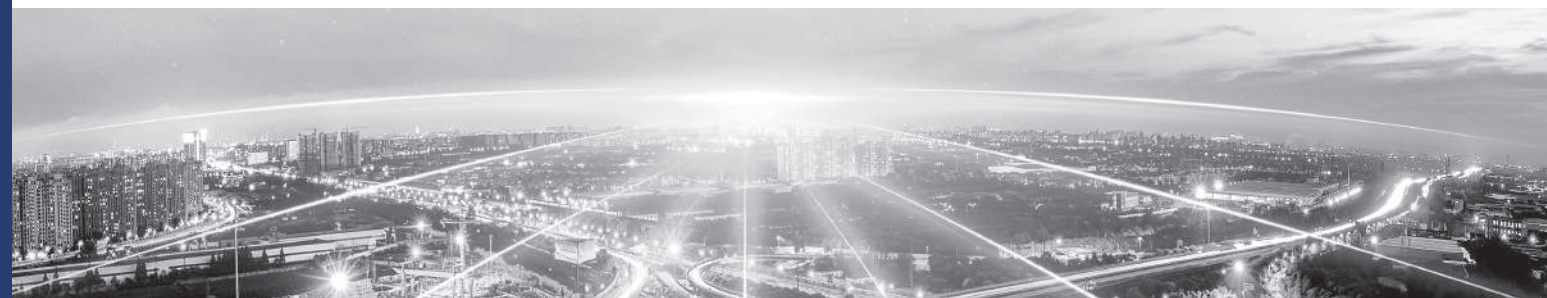


Leading DC Technology



PRODUCT CATALOG

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COMPANY PROFILE

Introduction & History



XY Power Technology is an innovative company dedicating in R&D, manufacture and sales of EV charging module and the ESS. On the basis of power electronic technology, XY Power has been focusing on power conversion technology and systematic solutions for over 20 years. Product family includes 20kW/30kW/40kW AC/DC charging module for EV, PCS module for energy storage, Power Router for power distribution, and AC charger and DC charger for residential and commercial use. XY Power firmly believes that its significance is to create commercial benefits for customers, to prompt the industry, to explore the energy depuration and to provide career opportunities for employees through continuous innovation and excellent services.

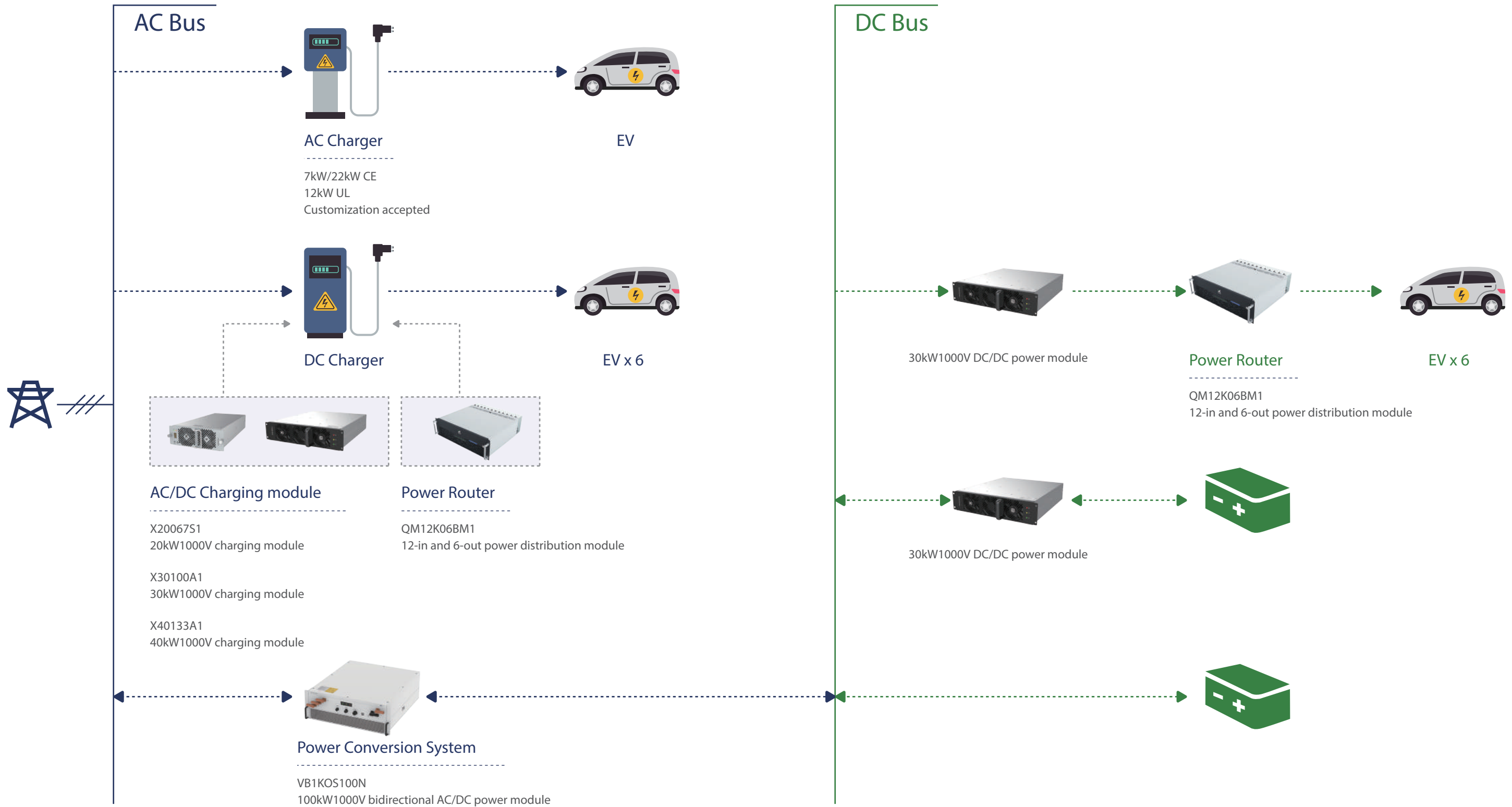
Product Benefits

 <p>Standby power consumption is as low as 7W to reduce the cost during product life cycle</p>	 <p>High conversion efficiency is up to 96.2% at peak point</p>	 <p>Output voltage is low to 50V to be compatible with special vehicle charging</p>	 <p>PCB gel filled ensures stronger environmental suitability</p>
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Global Layouts Xi'an \ Dazhou \ Huizhou \ Mianyang \ Hungary \ Vietnam \ Mexico

PRODUCT CATALOG

Application in industry and commerce



PRODUCT PRESENTATION

AC/DC Charging Module 20kW (1000V/66.7A)



X20067S1

We provide 'Made in Europe' option*

Introduction

The smart EV AC2DC charging module meets specific CE standards and is designed for indoor/outdoor application with output voltage range of 50Vdc~1000Vdc. It has high efficiency and high power density, particularly thorough gel filled technology ensures higher protection capacity than competitors, super low standby power consumption reduces the cost during product life cycle.

Main Features

- Gel filled ensures stronger environmental suitability
- Dynamic protection algorithm provides better protection strategy and higher reliability
- Lower standby power consumption is as low as 7W
- 3 phase without neutral eliminates the risk of high neutral currents
- Built-in voltage discharge circuit

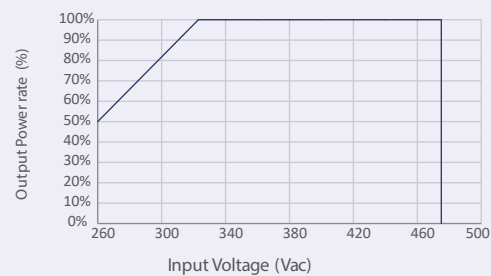
Application

Charging module is designed for split type DC charger and integral DC charger to supply power to electrical vehicles. Modular design has distinct advantages of high scalability, easy on installation, maintenance, replacement and upgrade, cost efficiency, and redundancy.

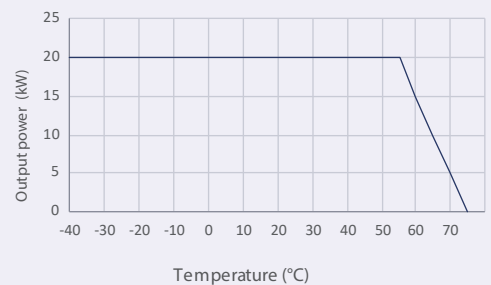
Specification

Input	Input voltage	285~475Vac
	Wiring	3 phases 4 wires(3W+PE)
	Input frequency	45~65Hz, rated: 50 Hz
	THDi	≤3% rated input and full load output
	Power factor	≥0.99, full load
Output	Output voltage	50-1000Vdc
	Max output current	66.7A
	Output power	20kW (300~1000Vdc)
	Short circuit protection	Current limit when in output short circuit, auto recovery
	Voltage regulation	≤±0.5%
	Current regulation	≤±1%
Communication and Alarm	Communication	CAN
	Max number for parallel	60 modules
	Module address	Support both SW setting and HW setting
Key Spec	Dimension (W × D × H)	218 mm × 458 mm × 84 mm
	Weight	<12 kg
	Efficiency	>95% at full load, max efficiency point 96.2%
	Cooling	Fan cooling
Operating Environment	Operating temperature	-40°C~ + 75°C
	Humidity	Less than 98%RH@-40~ + 75°C
	Noise	≤ 65 dB@ full load in 25°C

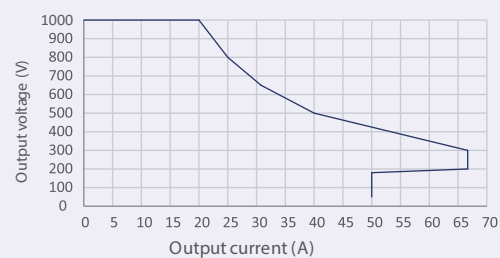
Input power limit curve



Temperature derating curve



Output power characteristic



PRODUCT PRESENTATION

AC/DC Charging Module 30kW (1000V/100A)



X30100A1

We provide 'Made in Europe' option*

Introduction

The smart EV AC2DC charging module meets specific CE standards and is designed for indoor/outdoor application with output voltage range of 50Vdc~1000Vdc. It has high efficiency and high power density, particularly thorough gel filled technology ensures higher protection capacity than competitors, super low standby power consumption reduces the cost during product life cycle.

Main Features

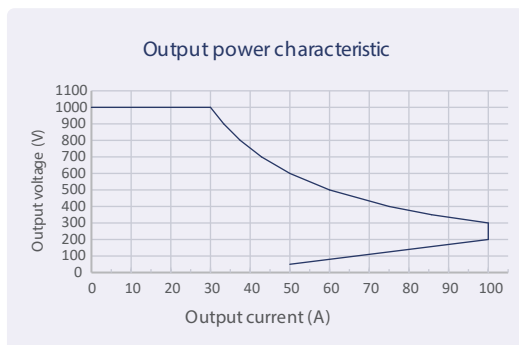
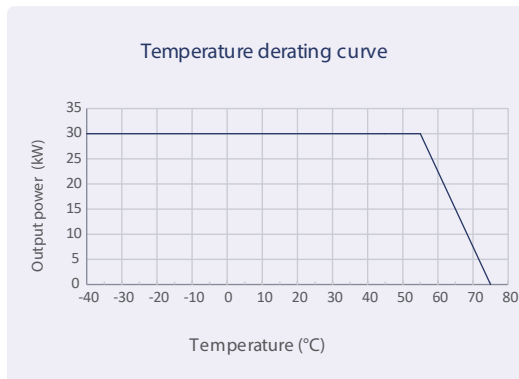
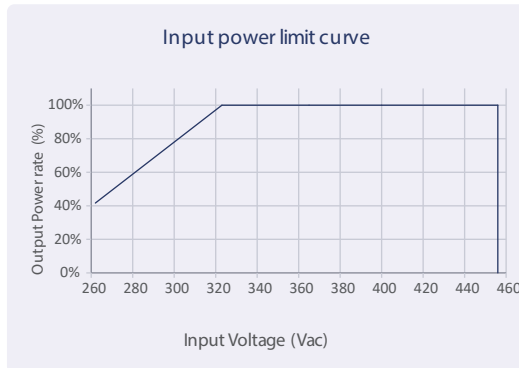
- Gel filled ensures stronger environmental suitability
- Dynamic protection algorithm provides better protection strategy and higher reliability
- Lower standby power consumption is as low as 7W
- 3 phase without neutral eliminates the risk of high neutral currents
- Built-in voltage discharge circuit

Application

Charging module is designed for split type DC charger and integral DC charger to supply power to electrical vehicles. Modular design has distinct advantages of high scalability, easy on installation, maintenance, replacement and upgrade, cost efficiency, and redundancy.

Specification

Input	Input voltage	260~456Vac
	Wiring	3 phases 4 wires(3W+PE)
	Input frequency	45~65Hz, rated: 50 Hz
	THDi	≤3% rated input and full load output
	Power factor	≥0.99, full load
Output	Output voltage	50-1000Vdc
	Max output current	100A
	Output power	30kW (300~1000Vdc)
	Short circuit protection	Current limit when in output short circuit, auto recovery
	Voltage regulation	≤±0.5%
	Current regulation	≤±1%
Communication and Alarm	Communication	CAN
	Max number for parallel	60 modules
	Module address	Support both SW setting and HW setting
Key Spec	Dimension (W × D × H)	350 mm × 430mm × 84 mm
	Weight	<17 kg
	Efficiency	>95% at full load, max efficiency point 96.2%
Operating Environment	Cooling	Fan cooling
	Operating temperature	-40°C~ + 75°C
	Humidity	Less than 98%RH@-40~ + 75°C
	Noise	≤ 65 dB@ full load in 25°C



PRODUCT PRESENTATION

AC/DC Charging Module 40kW (1000V/133A)



X40133A1

We provide 'Made in Europe' option*

Introduction

The smart EV AC2DC charging module meets specific CE standards and is designed for indoor/outdoor application with output voltage range of 50Vdc~1000Vdc. It has high efficiency and high power density, particularly thorough gel filled technology ensures higher protection capacity than competitors, super low standby power consumption reduces the cost during product life cycle.

Main Features

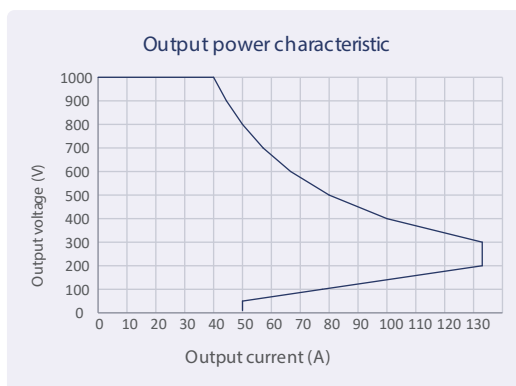
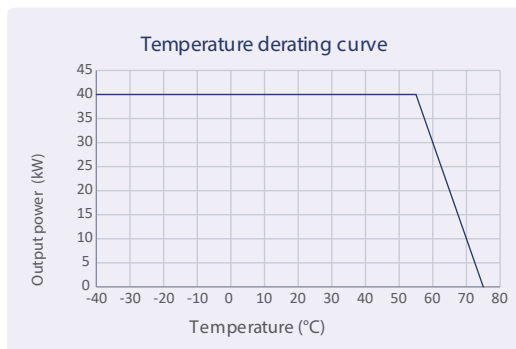
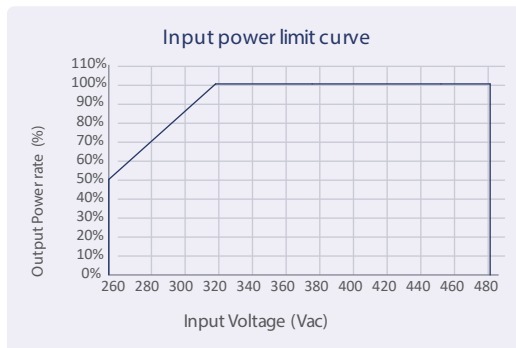
- TUV CE UL certification
- Gel filled ensures stronger environmental suitability
- Dynamic protection algorithm provides better protection strategy and higher reliability
- 0W standby power consumption (external control)
- 3 phase without neutral eliminates the risk of high neutral currents
- Built-in voltage discharge circuit

Application

Charging module is designed for split type DC charger and integral DC charger to supply power to electrical vehicles. Modular design has distinct advantages of high scalability, easy on installation, maintenance, replacement and upgrade, cost efficiency, and redundancy.

Specification

Input	Input voltage	260~485Vac
	Wiring	3 phases 4 wires(3W+PE)
	Input frequency	45~65Hz, rated: 50 Hz
	THDi	≤3% rated input and full load output
	Power factor	≥0.99, full load
Output	Output voltage	50-1000Vdc
	Max output current	133A
	Output power	40kW (300~1000Vdc)
	Short circuit protection	Current limit when in output short circuit, auto recovery
	Voltage regulation	≤±0.5%
	Current regulation	≤±1%
Communication and Alarm	Communication	CAN
	Max number for parallel	60 modules
	Module address	Support both SW setting and HW setting
Key Spec	Dimension (W × D × H)	300 mm × 438 mm × 84 mm
	Weight	<20 kg
	Efficiency	≥95.5% at full load, max efficiency point ≥96%
	Cooling	Fan cooling
Operating Environment	Operating temperature	-40°C~ + 75°C
	Humidity	Less than 98%RH@-40~ + 75°C
	Noise	≤ 60 dB@ full load in 25°C



PRODUCT PRESENTATION

100kW1000V bidirectional AC/DC power module

VB1K0S100N

Introduction

The power conversion system is a power converter with bi-directional AC/DC function. The PCS module is designed with modular and fully digital control technology. It has off-grid, grid-connected and rectification modes, and it can switch intelligently among these modes according to dispatching or EMS instructions. In the meantime, it has reactive power compensation and harmonic compensation functions for the power grid.



Main Features

- New three-level technology, conversion efficiency up to 98.8%, better power quality
- 110% overload long-term operation, higher than the industry equivalent level
- Adopts air duct isolation cooling, protection grade of IP65, applies to different conditions
- Supports the IEC61850 protocol and has ms level response capability
- Provides fault recording and remote online update functions
- Wide operating temperature range, operates with full load between -40 °C ~ +45°C , 5°C higher than that of competitors generally
- Supports controllable constant power, constant current and constant voltage, and has functions such as primary frequency modulation, LVRT/HVRT and black-start. It has strong adaptability to grid
- Convenient modular structural design to make installation more flexible and easier, and to improve the system maintainability and expansion accessibility
- Function of multi-dimensional fan intelligent speed control to reduce power consumption and noise
- Multiple safety protections. over/under voltage protection, over temperature protection, abnormal detection of air duct

Specification

Part Number	VB1K0S100N	
DC end	DC voltage range	600Vdc- 1000Vdc
	Max. direct current	203A
	Max. power	120kW
AC end (grid connected)	Rated AC power	100kW
	Max. AC power	120kW (1min)
	Max. alternative current	173A
	Rated voltage of grid	400 Vac
	Grid voltage range	340 Vac ~440 Vac
	Rated grid frequency	50 Hz /60 Hz (settable)
	Grid frequency range	45-55 Hz /55-65 Hz (settable)
	Wiring	3W/ PE
	ITHD	≤3% (full load)
	Power factor	≥±0.99
	AC2DC and DC2AC Mode convert time	<15ms
AC Spe.(off grid)	Rated AC power	100kW
	Max. AC power	120kW (1min)
	Rated output voltage	400 Vac
	Rated grid frequency	50 Hz /60 Hz (settable)
System features	ITHD	≤3%
	Max. efficiency	≥98.8%
	Dimension (W*D*H)	700mm*870mm*270mm
	Weight	≤70kg
	Cooling	Smart fan cooling
	Noise	≤75dB
	Operating temperature	-40°C~+60°C (derating since 45°C)
	Protection grade	IP65
	Relative humidity	≤95%RH, non-condensing
	Altitude	3000m (derating since 3000m)
	Communication	RS485、 CAN、 Ethernet、 WIFI
Communication protocol	MODBUS-RTU、 CAN2.0	
Display	LED,APP	
Grid respond	L/HVRT, active and reactive power control, power slope control	
Protection	DC reverse connection protection	YES
	AC/DC over voltage protection	YES
	Island protection	YES
	Surge protection	YES
	Power grid monitoring	YES
Insulation monitoring	YES	

PRODUCT PRESENTATION

12-in and 6-out power router

Q12K06B1

Introduction

12-in and 6-out PR module provides a power distribution solution for EV DC charger, which can complete the full matrix power configuration from 12 independent charging modules to 6 independent charging routes, at the same time, it supports series and parallel use of multiple 12-in 6-out products, completing personalized requirements such as 6-in 6-out, 24-in 6-out, 12-in 12-out, 24-in 24-out, etc.

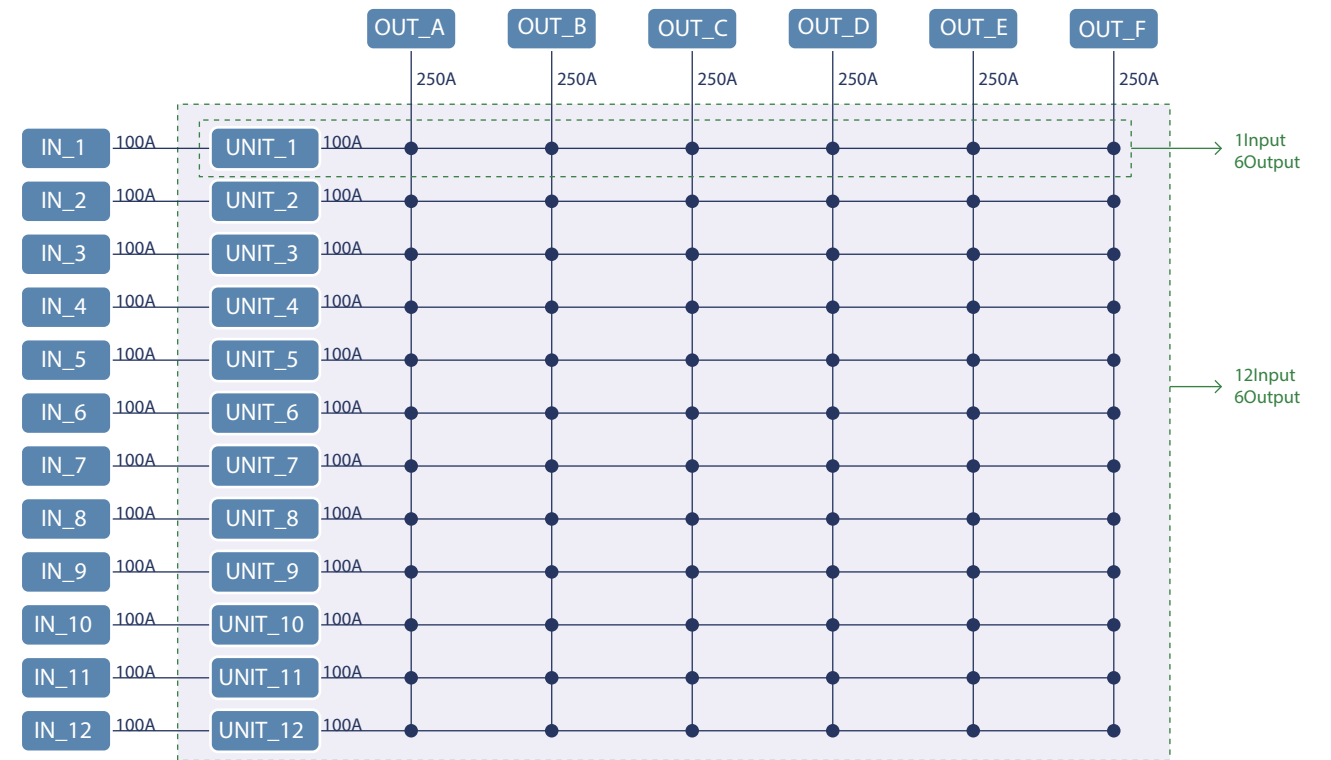


Main Features

- 12-in and 6-out, supports extension in parallel work and in series work
- High transmission efficiency up to 99.9%
- Can work both in parallel and in series to extend
- Can connect up to 12 charging module in front stage
- 0~1000Vdc output has stronger compatibility with EVs
- Online firmware update via CAN for multiple PR units simultaneously
- Modular design is easy for installation and maintenance



Structure Diagram



Specification

Part number	Q12K06B1	Storage temperature	-40°C~+75°C
Input voltage range	0~1000Vdc	Operation temperature	-40°C~+75°C
Input current range	0~100A	Relative humidity	5%~95%RH
Output voltage range	0~1000Vdc	Altitude	≤3600m
Output current range	0~250A(each of 6 routes)	Atmospheric pressure	80kPa~110kPa
Efficiency	≥99.9%	Dimension(W*H*D)	518mm*176mm*439mm
Communication	CAN*2	Weight	≤22Kg
Common ground	Not common-ground	Power interface	Copper bar
Protection	Output over voltage/short circuit protection; Relay fault protection; sleep mode; voltage configuration failure protection; communication abnormal protection; address duplication and configuration failure protection; over temperature protection		
Display and alarm	Green LED: solid-standby mode; breathing-charging Red LED: solid-over-temperature/abnormal address configuration/ID duplication/abnormal communication; breathing-over voltage/over current/abnormal voltage configuration; flashing-relays bonding/failure Alternative red and green: program update		