

SINEXCEL-RE
盛弘新能

SINEXCEL-RE

Product Selection Guide

Dear Customer, thank you for choosing power supply equipment from Shenzhen Sinexcel Renewable Energy Equipment Co., Ltd. We are committed to creating competitive products that meet customer needs.

Shenzhen Sinexcel Renewable Energy Equipment Co., Ltd. provides comprehensive technical support. Please contact your nearest SINEXCEL office or customer service center for assistance.

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Shenzhen Sinexcel Renewable Energy Equipment Co., Ltd.

Address: 2/F, Building 5, Zone 2, Baiwangxin High-tech Industrial Park, No. 1002
Songbai Road, Nanshan District, Shenzhen

Postal Code: 518055

Website: www.sinexcel-re.com

Service Hotline: 400-0055-776

E-mail : bts-sales@sinexcel.com

SXN63 Series Bidirectional Programmable DC Power Supply



The SXN63 Series combines a DC power supply and a regenerative electronic load in one bidirectional programmable DC power supply. It operates as a SOURCE to deliver energy to the load and as a SINK to absorb load energy and return it to the grid, enabling two-quadrant operation.

The SXN63 Series supports voltages up to 2250 V and parallel operation of multiple units for power expansion. It is widely used for automotive electronics, traction batteries, PV, and energy-storage testing.

1 Applications

- Automotive Electronics
- Bidirectional DC-DC Converters
- Traction Batteries
- Power Semiconductors
- PV and Energy-Storage Inverters
- On-Board Chargers (OBCs)
- EV Traction Motors
- Precision Electroplating and Welding

2 Key Features

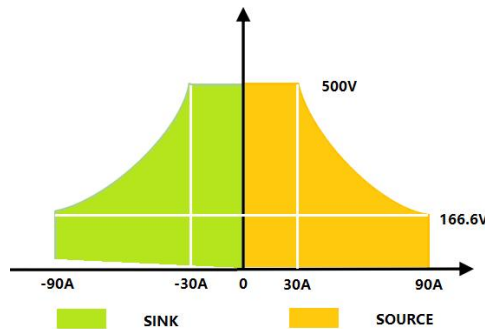
- (1) Integrated source/sink design with bidirectional power flow
- (2) Regenerative efficiency up to 95% for lower energy consumption
- (3) Up to 2250 V and 50 kW per unit
- (4) Parallel operation for higher output power
- (5) Constant-voltage (CV), constant-current (CC), constant-power (CP), and constant-resistance (CR) modes
- (6) Comprehensive protection: OVP, OCP, OPP, OTP, and input overvoltage/undervoltage protection
- (7) Solar array simulation
- (8) Battery simulation
- (9) Battery charge and discharge functions
- (10) Black Box function automatically records operating parameters during abnormal events for subsequent review and maintenance
- (11) Multiple remote-control interfaces; RS232, RS485, CAN, LAN, and USB are standard, with

analog control optional

3 Featured Functions

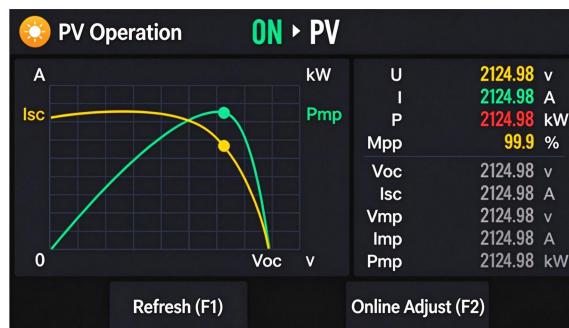
◆ Bidirectional Power Flow with Fast Switching

The SXN63 Series integrates source and sink functions and provides high-speed source/sink current-mode transitions. It switches rapidly between sourcing and sinking current to effectively prevent voltage or current overshoot.



◆ Oscilloscope View of Solar Array Simulation Curves in Real Time

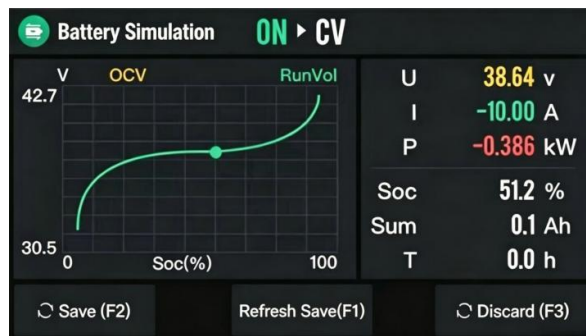
The SXN63 Series includes built-in EN 50530 and Sandia solar array simulator (SAS) models for simulating solar-array I-V and P-V curves. After the user enters the required parameters, the instrument generates and outputs the curves to evaluate an inverter's static and dynamic maximum power point tracking (MPPT) efficiency. An oscilloscope-style view displays the I-V/P-V curves and the current operating point in real time.



◆ Battery Simulation Mode

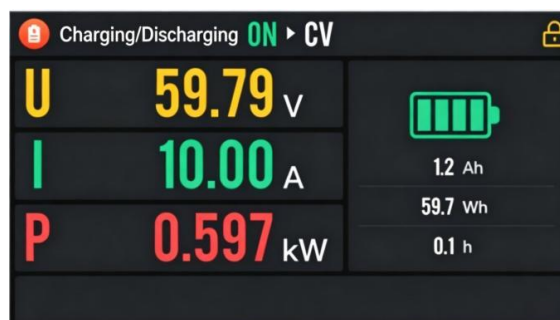
The power supply is embedded with multiple battery models to accurately simulate battery charge-discharge characteristics.

It comes with nearly 10 built-in battery output models, including lithium manganate, lithium cobalt oxide, lithium iron phosphate, NCM lithium-ion, lithium titanate, lead-acid, Ni-MH and Ni-Cd. It can simulate battery charge-discharge behaviors. Meanwhile, it supports user-defined battery parameter configuration, facilitating various tests for BMS, OBC, PCS and other products.



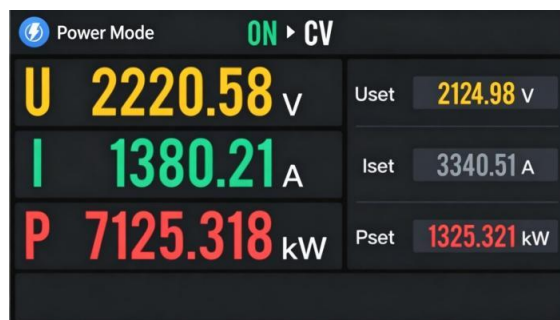
◆ Battery Charge-Discharge Mode, Supports CC-to-CV charging and constant-current discharging for precise control over the entire charge and discharge process.

The power supply features a battery charge-discharge operating mode and can perform charge-discharge tests when connected to battery loads. During charging, it operates in constant-current mode first and then switches to constant-current-constant-voltage mode until the cutoff current, time or capacity threshold is reached. For discharging, constant-current discharging is applied until cutoff voltage, time or capacity limit is triggered. It delivers accurate full-process charge-discharge control to meet requirements for battery performance testing and aging tests.



◆ Color touchscreen combined with physical keys for intuitive and comfortable operation.

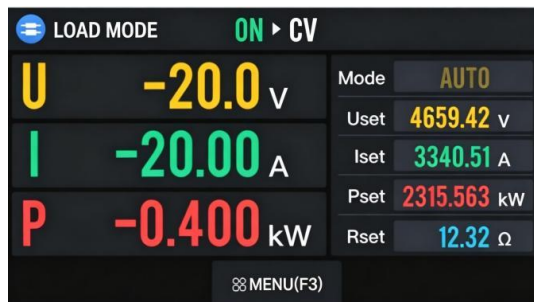
The touchscreen displays real-time voltage, current, power, and setpoints at a glance. Physical keys enable quick power control, mode switching, and parameter entry. Designed for both prolonged testing and high-frequency production use.



◆ Load Operation Mode, Eight operation modes are available for flexible switching to accurately simulate various load characteristics.

Under Load Operation Mode, users can set parameters such as voltage, current, power and

resistance, and switch among eight modes: CC, CV, CP, CR, CVCC, CVCR, CCCR and AUTO. The unit can run with constant-current, constant-voltage, constant-power, constant-resistance or composite characteristics, meeting the requirements for charge-discharge testing and aging tests of power supplies, batteries, PCS and other products.



◆ Sequence Test Mode with Flexible, Automated Multi-Parameter Programming

In sequence test mode, users can program voltage and voltage changes, current and current changes, power, operating mode, dwell time, and other parameters. The instrument automatically executes the programmed steps for automated testing, burn-in, and related applications.

Sequence

S00

Previous (Enter)

Next (ESC)

00

UIP

10.00V

20.00A

3.000KW

00:00:05.000

✓

01

UIP

20.00V

50.00A

3.000KW

00:00:05.000

✓

02

Uramp

20.00V → 10.00A

50.0KW

✓

↺

03

Iamp

10.00V → 20.00A

10.00A

✓

↺

04

UIP

5.00V

10.00A

10.00V

✓

□

Cut Step (1)

Insert Step (2)

Step Edit (F2)

Exit (F3)

Quick Group

1

Uset

0.00V

Iset

340.00A

Pset

15.000KW

2

Uset

0.00V

Iset

340.00A

Pset

15.000KW

3

Uset

0.00V

Iset

340.00A

Pset

15.000KW

4

Uset

0.00V

Iset

340.00A

Pset

15.000KW

5

Uset

0.00V

Iset

340.00A

Pset

15.000KW

Save (F2)

Discard Changes (F3)

◆ Parallel Operation for Power Expansion,

When higher output power is required, units with the same rating can be connected in parallel. Setup is simple, while hardware synchronization provides accurate and reliable operation.



◆ Graphical PC software provides convenient access to sequence testing, PV simulation, battery simulation, and battery charge/discharge testing.

4 Model Selection

Voltage	Model	Current	Power	Voltage	Model	Current	Power
0-100V	SXN6302-100-120M	±120A	±1.8kW				
	SXN6303-100-150M	±170A	±3kW				
	SXN6305-100-170	±170A	±5kW				
	SXN6310-100-340	±340A	±10kW	0-200V	SXN6310-200-170	±170A	±10kW
	SXN6315-100-510	±510A	±15kW	0-300V	SXN6315-300-170	±170A	±15kW
Voltage	Model	Current	Power	Voltage	Model	Current	Power
0-500V	SXN6302-500-20M	±20A	±1.8kW	0-750V	SXN6302-750-15M	±15A	±1.8kW
	SXN6303-500-30M	±30A	±3kW		SXN6303-750-20M	±20A	±3kW
	SXN6305-500-40	±40A	±5kW		SXN6305-750-25	±25A	±5kW
	SXN6310-500-80	±80A	±10kW		SXN6310-750-60	±60A	±10kW
	SXN6315-500-120	±120A	±15kW		SXN6315-750-75	±75A	±15kW
	SXN6320-500-160	±160A	±20kW		SXN6320-750-120	±120A	±20kW
	SXN6330-500-240	±240A	±30kW		SXN6330-750-180	±180A	±30kW
Voltage	Model	Current	Power	Voltage	Model	Current	Power
0-1000V	SXN6310-1000-40	±40A	±10kW	0-1500V	SXN6310-1500-25	±25A	±10kW
	SXN6320-1000-80	±80A	±20kW		SXN6315-1500-40	±40A	±15kW
0-2250V	SXN6315-2250-25	±25A	±15kW		SXN6320-1500-60	±60A	±20kW
	SXN6330-2250-60	±60A	±30kW		SXN6330-1500-80	±80A	±30kW
					SXN6350-1500-130	±130A	±50kW
Note: Models SXN6315-100-510, SXN6315-500-120, SXN6315-750-75, SXN6315-1500-40, and SXN6315-2250-25 can be customized for power ratings up to 18 kW.							

5 Technical Specifications

5.1 100 V Series

Model		SXN6302-100-120M	SXN6303-100-150M	SXN6305-100-170	SXN6310-100-340	SXN6315-100-510
Output Range	Volt.	0–100V				
	Curr.	-120A–120A	-150A–150A	-170A–170A	-340A–340A	-510A–510A
	Power	-1.8kW–1.8kW	-3kW–3kW	-5kW–5kW	-10kW–10kW	-15kW–15kW
	Res.	0–100Ω				
Setting Accuracy	Volt.	≤0.02%FS				
	Curr.	≤0.05%FS				
	Power	≤0.5%FS				
Setting Resolution	Volt.	0.01V				
	Curr.	0.01A				
	Power	0.001kW				
Readback Accuracy	Volt.	≤0.02%FS				
	Curr.	≤0.05%FS				
	Power	≤0.50%FS				
Readback Resolution	Volt.	0.01V				
	Curr.	0.01A				
	Power	0.001kW				
Ripple (20Hz–2MHz)	Vrms	35mV				
	Vpp	250mV				
Transient Response Time	Volt.	≤1.5ms				
Rise Time	Volt.	30ms(10%–90%)				
Source/Sink Transition Time	Curr.	2ms(+90%–90%)				
Line Regulation	Volt.	≤0.02%FS				
	Curr.	≤0.05%FS				
Load Regulation	Volt.	≤0.05%FS				
	Curr.	≤0.15%FS				
Overvoltage Protection (OVP)		Adjustable, 0-110% FS				
Remote-Sense Compensation Voltage		5V				
Protection Functions		OVP, OCP, OPP, OTP, reverse-polarity protection for Vsense, and input overvoltage/undervoltage protection				
Parallel Operation		Supports multiple units in parallel				
Communication Interfaces (Standard)		RS232, RS485, CAN, LAN, USB				
Analog Control Interface (Optional)		Start, stop, alarm, 0-5 V, 0-10 V, or 4-20 mA				
Efficiency		~93%				
Operating Temperature		0–40°C				
Storage Temperature		-10°C–70°C				
Humidity		20%-90% RH, non-condensing				
AC Input	Phases	Single-phase, two-wire + PE		Three-phase, three-wire + PE		
	Volt.	198–242V		342–528V		
	Freq.	47–63Hz				
	PF	0.99				
	Regen. Eff.	95%				
Dimensions (W x H x D, mm)		19-inch standard 3U chassis, 482 x 133.3 x 795 mm				
Weight (kg)		23	23	24	32	40

5.2 200-300 V Series

Model		SXN6310-200-170	SXN6315-300-170
Output Range	Volt.	0–200V	0–300V
	Curr.	–170A–170A	
	Power	–10kW–10kW	–15kW–15kW
	Res.	0–100Ω	
Setting Accuracy	Volt.	≤0.02%FS	
	Curr.	≤0.05%FS	
	Power	≤0.50%FS	
Setting Resolution	Volt.	0.01V	
	Curr.	0.01A	
	Power	0.001kW	
Readback Accuracy	Volt.	≤0.02%FS	
	Curr.	≤0.05%FS	
	Power	≤0.50%FS	
Readback Resolution	Volt.	0.01V	
	Curr.	0.01A	
	Power	0.001kW	
Ripple (20Hz–2MHz)	Vrms	35mV	
	Vpp	250mV	
Transient Response Time	Volt.	≤1.5ms	
Rise Time	Volt.	30ms(10%–90%)	
Source/Sink Transition Time	Curr.	2ms(+90%–90%)	
Line Regulation	Volt.	≤0.02%FS	
	Curr.	≤0.05%FS	
Load Regulation	Volt.	≤0.05%FS	
	Curr.	≤0.15%FS	
Overvoltage Protection (OVP)		Adjustable, 0-110% FS	
Remote-Sense Compensation Voltage		10V	15V
Protection Functions		OVP, OCP, OPP, OTP, reverse-polarity protection for Vsense, and input overvoltage/undervoltage protection	
Parallel Operation		Supports multiple units in parallel	
Communication Interfaces (Standard)		RS232, RS485, CAN, LAN, USB	
Analog Control Interface (Optional)		Start, stop, alarm, 0-5 V, 0-10 V, or 4-20 mA	
Efficiency		–93%	
Operating Temperature		0–40°C	
Storage Temperature		–10°C–70°C	
Humidity		20%-90% RH, non-condensing	
AC Input	Phases	Three-phase, three-wire + PE	
	Volt.	342–528V	
	Freq.	47–63Hz	
	PF	0.99	
	Regen. Eff.	95%	
Dimensions (W x H x D, mm)		19-inch standard 3U chassis, 482 x 133.3 x 795 mm	
Weight (kg)		32	40

5.3 500 V Series

Model		SXN6302-500-20M	SXN6303-500-30M	SXN6305-500-40	SXN6310-500-80	SXN6315-500-120	SXN6320-500-160	SXN6330-500-240
Output Range	Volt.	0–500V						
	Curr.	-20A–20A	-30A–30A	-40A–40A	-80A–80A	-120A–120A	-160A–160A	-240A–240A
	Power	-1.8kW–1.8kW	-3kW–3kW	-5kW–5kW	-10kW–10kW	-15kW–15kW	-20kW–20kW	-30kW–30kW
	Res.	0–500Ω						
Setting Accuracy	Volt.	≤0.02%FS						
	Curr.	≤0.05%FS						
	Power	≤0.50%FS						
Setting Resolution	Volt.	0.01V						
	Curr.	0.01A						
	Power	0.001kW						
Readback Accuracy	Volt.	≤0.02%FS						
	Curr.	≤0.05%FS						
	Power	≤0.50%FS						
Readback Resolution	Volt.	0.01V						
	Curr.	0.01A						
	Power	0.001kW						
Ripple (20 Hz-2 MHz)	Vrms	95mV						
	Vpp	600mV						
Transient Response Time	Volt.	≤1.5ms						
Rise Time	Volt.	30ms(10%–90%)						
Source/Sink Transition Time	Curr.	2ms(+90%—90%)						
Line Regulation	Volt.	≤0.02%FS						
	Curr.	≤0.05%FS						
Load Regulation	Volt.	≤0.05%FS						
	Curr.	≤0.15%FS						
Overvoltage Protection (OVP)		Adjustable, 0-110% FS						
Remote-Sense Compensation Voltage		25V						
Protection Functions		OVP, OCP, OPP, OTP, reverse-polarity protection for Vsense, and input overvoltage/undervoltage protection						
Parallel Operation		Supports multiple units in parallel						
Communication Interfaces (Standard)		RS232, RS485, CAN, LAN, USB						
Analog Control Interface (Optional)		Start, stop, alarm, 0-5 V, 0-10 V, or 4-20 mA						
Efficiency		–93%						
Operating Temperature		0–40°C						
Storage Temperature		-10°C–70°C						
Humidity		20%-90% RH, non-condensing						
AC Input	Phase s	Single-phase, two-wire + PE		Three-phase, three-wire + PE				
	Volt.	198–242V		342–528V				
	Freq.	47–63Hz						
	PF	0.99						
	Regen. Eff.	95%						
Dimensions (W x H x D, mm)		19-inch standard 3U chassis, 482 x 133.3 x 795 mm						
Weight (kg)		23	23	24	32	40	34	43

5.4 750 V Series

Model		SXN6302-750-15M	SXN6303-750-20M	SXN6305-750-25	SXN6310-750-60	SXN6315-750-75	SXN6320-750-120	SXN6330-750-180
Output Range	Volt.	0–750V						
	Curr.	-15A–15A	-20A–20A	-25A–25A	-60A–60A	-75A–75A	-120A–120A	-180A–180A
	Power	-1.8kW–1.8kW	-3kW–3kW	-5kW–5kW	-10kW–10kW	-15kW–15kW	-20kW–20kW	-30kW–30kW
	Res.	0–750Ω						
Setting Accuracy	Volt.	≤0.02%FS						
	Curr.	≤0.05%FS						
	Power	≤0.50%FS						
Setting Resolution	Volt.	0.1V						
	Curr.	0.01A						
	Power	0.001kW						
Readback Accuracy	Volt.	≤0.02%FS						
	Curr.	≤0.05%FS						
	Power	≤0.50%FS						
Readback Resolution	Volt.	0.1V						
	Curr.	0.01A						
	Power	0.001kW						
Ripple (20Hz–2MHz)	Vrms	100mV						
	Vpp	900mV						
Transient Response Time	Volt.	≤1.5ms						
Rise Time	Volt.	30ms(10%–90%)						
Source/Sink Transition Time	Curr.	2ms(+90%–90%)						
Line Regulation	Volt.	≤0.02%FS						
	Curr.	≤0.05%FS						
Load Regulation	Volt.	≤0.05%FS						
	Curr.	≤0.15%FS						
Overvoltage Protection (OVP)		Adjustable, 0-110% FS						
Remote-Sense Compensation Voltage		37.5V						
Protection Functions		OVP, OCP, OPP, OTP, reverse-polarity protection for Vsense, and input overvoltage/undervoltage protection						
Parallel Operation		Supports multiple units in parallel						
Communication Interfaces (Standard)		RS232, RS485, CAN, LAN, USB						
Analog Control Interface (Optional)		Start, stop, alarm, 0-5 V, 0-10 V, or 4-20 mA						
Efficiency		~93%						
Operating Temperature		0–40°C						
Storage Temperature		-10°C–70°C						
Humidity		20%-90% RH, non-condensing						
AC Input	Phases	Single-phase, two-wire + PE			Three-phase, three-wire + PE			
	Volt.	198–242V			342–528V			
	Freq.	47–63Hz						
	PF	0.99						
	Regen. Eff.	95%						
Dimensions (W x H x D, mm)		19-inch standard 3U chassis, 482 x 133.3 x 795 mm						
Weight (kg)		23	23	24	32	40	34	43

5.5 1000 V Series

Model		SXN6310-1000-40	SXN6320-1000-80
Output Range	Volt.	0–1000V	
	Curr.	-40A–40A	-80A–80A
	Power	-10kW–10kW	-20kW–20kW
	Res.	0–1000Ω	0–1000Ω
Setting Accuracy	Volt.	≤0.02%FS	
	Curr.	≤0.05%FS	
	Power	≤0.50%FS	
Setting Resolution	Volt.	0.1V	
	Curr.	0.01A	
	Power	0.001kW	
Readback Accuracy	Volt.	≤0.02%FS	
	Curr.	≤0.05%FS	
	Power	≤0.50%FS	
Readback Resolution	Volt.	0.1V	
	Curr.	0.01A	
	Power	0.001kW	
Ripple (20Hz–2MHz)	Vrms	295mV	310mV
	Vpp	1700mV	2000mV
Transient Response Time	Volt.	≤1.5ms	
Rise Time	Volt.	30ms(10%–90%)	
Source/Sink Transition Time	Curr.	2ms(+90%–90%)	
Line Regulation	Volt.	≤0.02%FS	
	Curr.	≤0.05%FS	
Load Regulation	Volt.	≤0.05%FS	
	Curr.	≤0.15%FS	
Overvoltage Protection (OVP)		Adjustable, 0-110% FS	
Remote-Sense Compensation Voltage		50V	
Protection Functions		OVP, OCP, OPP, OTP, reverse-polarity protection for Vsense, and input overvoltage/undervoltage protection	
Parallel Operation		Supports multiple units in parallel	
Communication Interfaces (Standard)		RS232, RS485, CAN, LAN, USB	
Analog Control Interface (Optional)		Start, stop, alarm, 0-5 V, 0-10 V, or 4-20 mA	
Efficiency		~93%	
Operating Temperature		0–40°C	
Storage Temperature		-10°C–70°C	
Humidity		20%-90% RH, non-condensing	
AC Input	Phases	Three-phase, three-wire + PE	
	Volt.	342–528V	
	Freq.	47–63Hz	
	PF	0.99	
	Regen. Eff.	95%	
Dimensions (W x H x D, mm)		19-inch standard 3U chassis, 482 x 133.3 x 795 mm	
Weight (kg)		32	34

5.6 1500 V Series

Model		SXN6310-1500-25	SXN6315-1500-40	SXN20-631500-60	SXN6330-1500-80	SXN6350-1500-130
Output Range	Volt.	0–1500V				
	Curr.	-25A–25A	-40A–40A	-60A–60A	-80A–80A	-130A–130A
	Power	-10kW–10kW	-15kW–15kW	-20kW–20kW	-30kW–30kW	-50kW–50kW
	Res.	0–1500Ω	0–1500Ω	0–1500Ω	0–1500Ω	0–1500Ω
Setting Accuracy	Volt.	≤0.02%FS				
	Curr.	≤0.05%FS				
	Power	≤0.50%FS				
Setting Resolution	Volt.	0.1V				
	Curr.	0.01A				
	Power	0.001kW				
Readback Accuracy	Volt.	≤0.02%FS				
	Curr.	≤0.05%FS				
	Power	≤0.50%FS				
Readback Resolution	Volt.	0.1V				
	Curr.	0.01A				
	Power	0.001kW				
Ripple (20Hz–2MHz)	Vrms	300mV	350mV	300mV	370mV	380mV
	Vpp	2000mV	2000mV	2000mV	2400mV	2500mV
Transient Response Time	Volt.	≤1.5ms				
Rise Time	Volt.	30ms(10%–90%)				
Source/Sink Transition Time	Curr.	2ms(+90%–90%)				
Line Regulation	Volt.	≤0.02%FS				
	Curr.	≤0.05%FS				
Load Regulation	Volt.	≤0.05%FS				
	Curr.	≤0.15%FS				
Overvoltage Protection (OVP)		Adjustable, 0-110% FS				
Remote-Sense Compensation Voltage		75V				
Protection Functions		OVP, OCP, OPP, OTP, reverse-polarity protection for Vsense, and input overvoltage/undervoltage protection				
Parallel Operation		Supports multiple units in parallel				
Communication Interfaces (Standard)		RS232, RS485, CAN, LAN, USB				
Analog Control Interface (Optional)		Start, stop, alarm, 0-5 V, 0-10 V, or 4-20 mA				
Efficiency		~93%				
Operating Temperature		0–40°C				
Storage Temperature		-10°C–70°C				
Humidity		20%-90% RH, non-condensing				
AC Input	Phases	Three-phase, three-wire + PE				
	Volt.	342–528V				
	Freq.	47–63Hz				
	PF	0.99				
	Regen. Eff.	95%				
Dimensions (W x H x D, mm)		19-inch standard 3U chassis, 482 x 133.3 x 795 mm				482 x 177 x 810
Weight (kg)		32	40	34	43	54

5.7 2250 V Series

Model		SXN6315-2250-25	SXN6330-2250-60
Output Range	Volt.	0–2250V	0–2250V
	Curr.	-25A–25A	-60A–60A
	Power	-15kW–15kW	-30kW–30kW
	Res.	0–2250Ω	
Setting Accuracy	Volt.	≤0.02%FS	
	Curr.	≤0.05%FS	
	Power	≤0.50%FS	
Setting Resolution	Volt.	0.1V	
	Curr.	0.01A	
	Power	0.001kW	
Readback Accuracy	Volt.	≤0.02%FS	
	Curr.	≤0.05%FS	
	Power	≤0.50%FS	
Readback Resolution	Volt.	0.1V	
	Curr.	0.01A	
	Power	0.001kW	
Ripple (20Hz–2MHz)	Vrms	200mV	300mV
	Vpp	2100mV	2700mV
Transient Response Time	Volt.	≤1.5ms	
Rise Time	Volt.	30ms(10%–90%)	
Source/Sink Transition Time	Curr.	2ms(+90%–90%)	
Line Regulation	Volt.	≤0.02%FS	
	Curr.	≤0.05%FS	
Load Regulation	Volt.	≤0.05%FS	
	Curr.	≤0.15%FS	
Overvoltage Protection (OVP)		Adjustable, 0-110% FS	
Remote-Sense Compensation Voltage		112.5V	
Protection Functions		OVP, OCP, OPP, OTP, reverse-polarity protection for Vsense, and input overvoltage/undervoltage protection	
Parallel Operation		Supports multiple units in parallel	
Communication Interfaces (Standard)		RS232, RS485, CAN, LAN, USB	
Analog Control Interface (Optional)		Start, stop, alarm, 0-5 V, 0-10 V, or 4-20 mA	
Efficiency		~93%	
Operating Temperature		0–40°C	
Storage Temperature		-10°C–70°C	
Humidity		20%-90% RH, non-condensing	
AC Input	Phases	Three-phase, three-wire + PE	
	Volt.	342–528V	
	Freq.	47–63Hz	
	PF	0.99	
	Regen. Eff.	95%	
Dimensions (W x H x D, mm)		19-inch standard 3U chassis, 482 x 133.3 x 795 mm	
Weight (kg)		40	43