

# Extreme Power SPX33 - Flex

10-40kVA

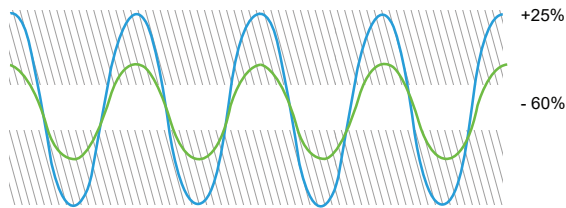


- ✓ Finance
- ✓ Data center
- ✓ Transportation
- ✓ Commercial facility
- ✓ Intelligent equipment
- ✓ Medical industry

## Advanced Technology

- ✓ Super wide input voltage range -605~+20% for high grid adaptability
- ✓ Dual DSP control technology for top performance
- ✓ Anti-corrosion resistant coating for all PCB boards
- ✓ Intelligent fan speed control reduces the noise and prolongs fan service life
- ✓ ECO mode and EPO function
- ✓ Full protection with input, output, bypass, maintenance bypass and battery breaker

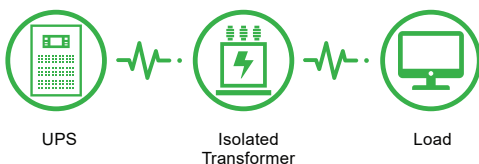
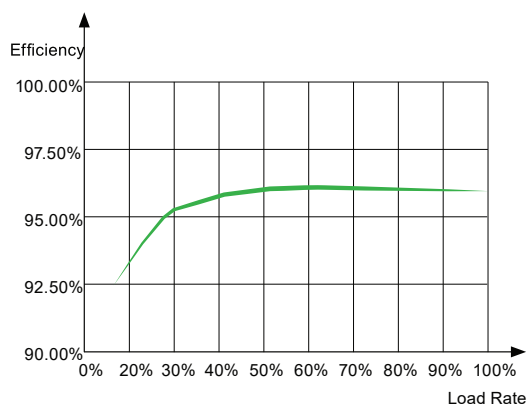
PRODUCT DATASHEET



Wide input voltage range



Automatic fans control



UPS

Isolated Transformer

Load



## High Reliability

- Super wide input voltage range -60%~+25% for high grid adaptability and prolong battery service life.
- Dual DSP control for top performance and reliability.
- Intelligent fan speed control reduces the noise and prolongs fan service life.
- Anti-corrosion resistant coating in all PCB boards.
- Full protection with input,output,bypass, maintenance bypass and battery breaker.
- Generator compatible ensure the clean power for extend power outage.
- Local and remote EPO function for immediatly remove power from connected load in the event of emergency.
- Short circuit time settable 10-200ms which provide high protection for system.
- Bus synchronization control function provides reliable high power for the dual bus application.



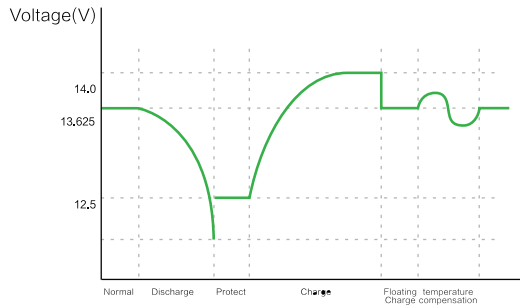
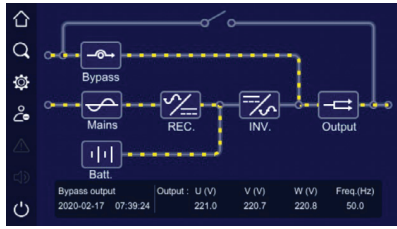
## Green Power

- Output power factor 1.0, more powerful to connect more critical loads.
- AC/AC efficiency up to 96% and 25% load above 94% efficiency reduces heat dissipation and limits power consumption costs.
- ECO mode efficiency up to 99% will significant reduce the TCO.
- 3 level inverter and IGBT technology ensure input PF>0.99 and low THDi <3% for maximum upstream sources compatibility.
- Self-load test function, easy debugging and easy onsite test during commissioning, before it is connected the real load, without using costly temporary loads, cabling and breakers for energy saving.



## Galvanic Isolation

- Isolation transformer can house inside the cabinet for full input or output isolation which suitable for medical and critical application.
- Isolation transformer temperature detection and alarm.
- Short circuit protection, restrain the high current puncture to UPS.
- No effects to the UPS output performance or reduced impact of the inverter power components whilst supplying specific loads.



Intelligent battery management



## Intelligent Management

- Multi-functional touch screen with LED Indicators, ensure comprehensive and visualized information display.
- Large data storage capacity, events logs 10000pcs.
- Intelligent battery management which include 3 stage battery charging mode, Battery static and battery test function which prolong battery service life.
- Key components pre-alarm function.
- Smart programmable dry contact communication.
- Dedusting function which save the service time and keep system performance.
- Easy onsite firmware update.



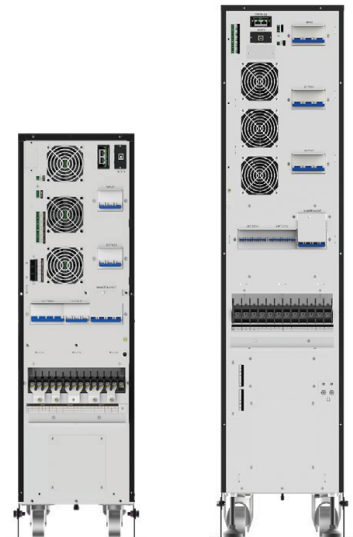
## Flexible Design

- Adjustable input and output phase 3:3/3:1/1:1 for 10-20KVA and 3:3/3:1 for 30-40KVA to meet multiple power distribution condition.
- Integrated autonomy with compact footprint and external battery slot for extend power outage.
- DC voltage settable  $\pm 96 \sim \pm 240$  for 10KVA,  $\pm 144 \sim \pm 240$  for 20~40KVA.
- Multi-language of Chinese, English, Italian, Polish, Russian, Spanish, Korean.
- Frequency converter function (60Hz/50Hz or 50Hz/60Hz).
- Common battery bank in 2 units parallel system
- Easy onsite parallel slot modification up to 4 units
- Wheel design easy for movement and relocation.



## More Options

- Parallel kit
- SNMP slot
- Dust filter kit
- Expanded dry contact kit
- Intelligent Battery Monitoring System
- Protocol transfer kit
- LCD display
- Lithium battery
- Input/output isolation transformer
- Battery Charge Temperature Compensation



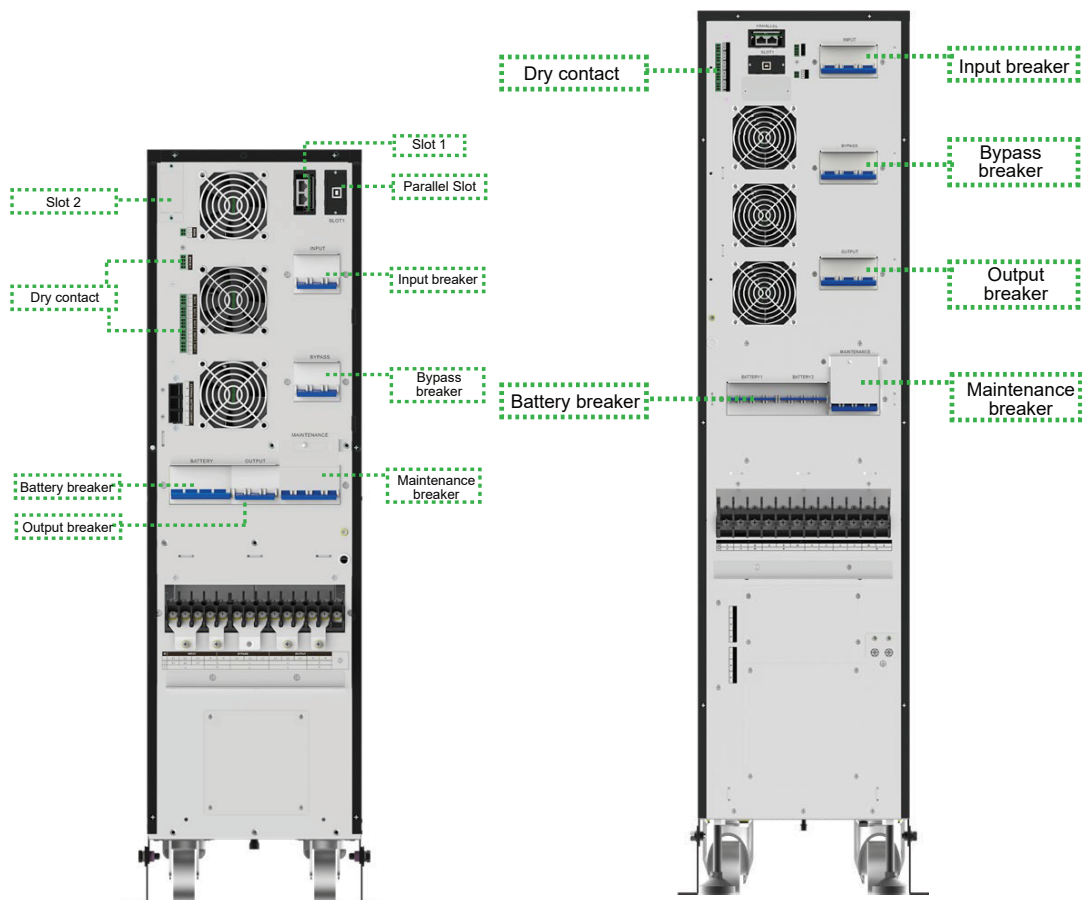
Parallel kit



SNMP Slot



Protocol transfer kit



## Green Power

- ✓ AC/AC efficiency up to 96%, less TCO and more energy saving
- ✓ Output power factor up to 1.0, more powerful to connect more critical loads
- ✓ 3 level IGBT technology for higher efficiency and less interference to grid

## Flexible Design

- ✓ Adjustable output voltage
- ✓ Built-in battery and flexible battery configuration
- ✓ Common battery bank
- ✓ Easy onsite parallel slot modification
- ✓ Wheel design
- ✓ Options are displayed in 7 languages: English, Russian, Chinese, Spanish, Polish, Italian and Korean

# SPECIFICATIONS

MODEL		SPX3310 - FX		SPX3320 - FX		SPX3330 - FX		SPX3340 - FX	
INPUT									
Phase		3:3/3:1/1:1				3:3/3:1			
Voltage (Vac)		80-280 (L-N)/138-485 (L-L)				138-485 (L-L)			
Frequency (Hz)		40-70							
Power Factor		≥0.99							
THDi at full Linear load		<3% (linear load)							
Dual Main Input		Yes							
OUTPUT									
Capacity (kW)		10		20		30		40	
AC/AC Efficiency (Max.)		96%							
Power Factor		1.0							
Voltage (Vac)		220/230/240±1% (L-N) 380/400/415±1%(L-L)							
Frequency (Hz)		50/60±0.1 (battery mode)							
THDv		≤2% (linear load), ≤4% (non-linear load)				≤1% (linear load), ≤4% (non-linear load)			
Crest Factor		3:1							
Overload		110% load for 60 mins, 130% load for 10 mins, 155% load for 1 min, above 155%-200% load for 200ms							
EPO		Remote and Local							
Cold Start		Yes							
BATTERY									
Voltage (Vdc)		±192 (±96 ~±240 adjustable)		±192 (±144 ~±240 adjustable)*					
Internal Battery		16~40*9AH/12V		24~40*9AH/12V		48~80*9AH/12V			
Charging Current (A)		1-10 settable				1-20 settable			
GENERAL									
Communication Interface		RS485+EPO+Dry contact (1 input,5 output)(SNMP are optional in slot)							
Display		4.3 Inch Touch Screen+ LED+ Physical buttons							
Alarm		Low battery, abnormal AC input, UPS failure, etc.							
Protection		Low battery, overload, short-circuit and over temperature, etc.							
Noise (dB)		<55							
Working Temperature (°C)		-5~40							
Relative Humidity		0 ~ 95%, no condensation							
Altitude (m)		2000, no derate							
Dimension (W×D×H)(mm)		250×755×880				300×785×1250			
Weight (kg)	with Battery	98 (20 ×9AH)		132 (32×9AH)		240 (64×9AH)		240 (64×9AH)	
	without Battery	50				85			
	with TX	143				240			

Specification is subject to change without prior notice.

Capacity will derate when battery voltage between ±144~±180