



S3300 Series

UPS 60-200kW

- » 3 level IGBT rectifier and inverter
- >> High Efficiency up to 96.5%
- » Output PF 1.0
- » High ambient temperature up to 50 °C
- >> Fault Trace Management
- >> Colorful LED bar



S3300 The new transformer less UPS from SATRON Power Solutions Best Class system for its compact footprint , the system also providemhigh efficiency >96.5% in double conversation and up to 98% in eco mode

S3300 is flexible in its configuration and benefits of wide range of options. This make it and ideal power protection for small and medium sized critical applications where the power consumption, available space and reliability are key parameters

The combination of high-level performance, with integrated battery solutions, or (as an alternative), the inbuilt galvanic isolation, the compact footprint and the wide range of options, make S3300 the best solution for the power quality of any critical load.





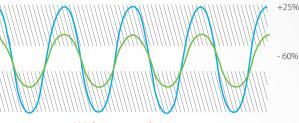
- Wide input voltage range -60% ~ 25% and Wide input frequency range 40-70Hz with high grid adaptability and prolong battery life.
- Separate internal air channel which hot air drives directly towards heat sink without distressing the PCB's and other internal sensitive components, improving the components service life and UPS reliability
- **High overload capacity** on inverter for 105% load long run and 130% load 10 mins and bypass 130% load long run.
- The most advanced and dual DSP control prevents single failure point and increase performance.
- Intelligent fan control and redundant design: 15% load can be driven when 2 fans fail and 40% load when 1 fan fails
- **Integrated with 4 breakers** input,output,bypass breaker and manual bypass switch for better protection of system.
- **All-round conformal coating** to all PCB boards, protect electronics from environmental effection and corrosion.
- Standard dust filter protect UPS placed in dusty environment.
- Short circuit period time settable from 20~200ms which provide high protection for system
- Cold start function which allow UPS start on battery when grid isn't available.
- Bus synchronization control function provides reliable high power for dual bus application
- Power walk in function decrease the inrush to mains or generator.
- Start up delay function, to sequentially restart the rectifiers once the mains power supply is restored if there are several UPS within the overall system
- No derating operate up to 40°C and continiously running under **high ambient temperature up to 50°C** with auto-derating.



Bypass and control unit



Power distribution unit



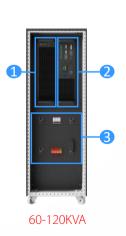
Wide input voltage

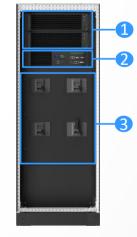


Automatic fans control







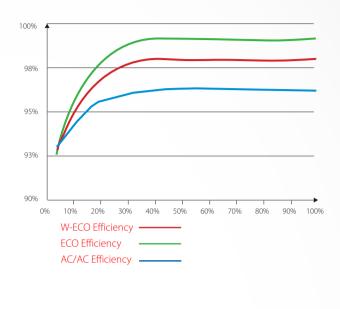


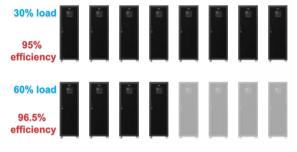
160-200KVA



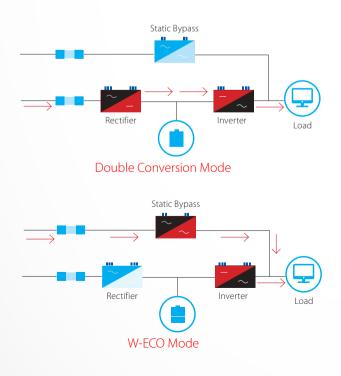


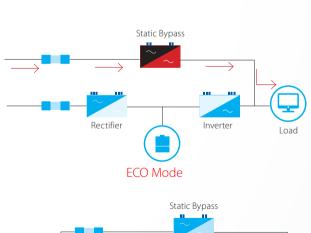
- Latest generation IGBT and three level technology, Low harmonic, high efficiency, effectively energy-saving.
- **High power density** design, which small footprint on 120KVA only 0.38m² for saving installation space.
- High input power factor up to 0.99 and low Input THDi: < 2.0% at full load, much less grid pollution and costs
- AC/AC efficiency up to 96.5% and 30% load up to 95% efficiency reduces heat dissipation and limits power consumption costs
- ECO mode efficiency up to 99.2% lead to significant cost reduction
- **W-ECO mode** could reach 98.5% efficiency, THDi below 5% and transfer time below 4ms to reduce TCO.
- 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.
- Parallel ECO mode maximum whole system effciency.
- Intelligent sleep mode which UPS sleep in random keep maxinum efficiency and energy saving.
- 8 units of intelligent paralleling helps to achieve maximum capacity up to 1.6MW.

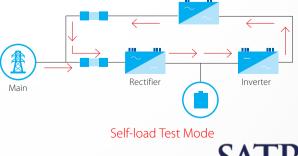










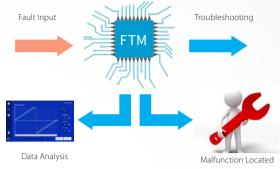




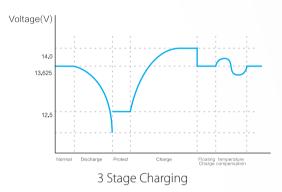
- Fault Trace Management (**FTM**) for convenient failure analysis(waveform record before & after of the fault point for 200ms) which easily figure out faulty point.
- 3 stage battery charging prolong the service life of batteries
- Intelligent battery management and mutiple setting, 28-48 pcs batteries per string allow customers to get the faulty battery out instead of replacing it
- Key components pre-alarm function which precaution the system fault and remind service for key components, like capacitor, fan.
- Full asset management record the spare parts replacement, timeline and service people.
- Cabinet temperature detect and pre-notification which prevent over temperature.
- Smart programmable dry contact which have 5 input dry contact and 3 output dry contact, which input dry contact have more than 10 functions and output dry contact have 18 functions allows to settable at site.
- Smart generator mode which allow UPS sent signal to turn on and off generator, also taking part power from battery to compensation generator capacity.
- Self-dedusting function which save the preventive service time.
- Common battery bank on parallel mode.
- Frequency converter function(60Hz to 50Hz or 50Hz to 60Hz)
- VRLA and Lithium battery compatible design



Common battery bank



Fault tracing management





Programmable Dry Contact



Frequency Converter Mode





User-friendly Interface

- User-friendly double physical ON/OFF button design to avoid false operation.
- User-friendly graphical interface with Single-line mimic diagram showing system status.
- Colorful 4.3 inch and 7 inch **touch screen** with LED Indicators, ensure comprehensive and visualized information display.
- **Multicolor LED bar** allowing quick and easy detection of the system status and simplified troubleshooting.
- **Multi-language** build-in display with Chinese, English, French, Spanish, Italian, Polish, Russian, Korean.
- High security access with separate password levels for users, technician and service engineers
- Large data storage capacity,10000pcs events logs.
- Support firmware online update, one time update for touch screen, power unit, bypass unit and extended card.
- Main unit display allow to check the information of each UPS status during parallel mode.





4.3 inch Touch Screen

7 inch Touch Screen







Normal Mode

Bypass Mode

Warning Mode



U disk Upgrade

Externded Drv

Contact Kit



- Flexible Network Management: SNMP
- Expanded dry contact kit(4 in 4 out)
- BMS kit for lithium battery communication
- Intelligent Battery Monitoring System
- Battery tripping kit
- N+X in parallel
- Input and output isolation transformer
- SPD: C Grade
- Battery Charge Temperature Compensation



BMS Kit



SNMP kit



C Level SPD



Battery tripping kit





MODEL	S3300-60	S3300-80	S3300-100	S3300-120	S3300-160	S3300-200
Voltage (Vac)	380/400/415 (138~485 L-L)					
Frequency (Hz)	40~70					
Power Factor	≥0.99					
Phase	20.99 3φ4W+PE					
THDi	≤2% (linear load, full load); ≤3% (nolinear load, full load)					
וטווו		≤2 <i>7</i> 0 (III	BYPASS			
Bypass Voltage (Vac)				: -20%~+15%		
Frequency Range (Hz)	50/60(±5%/±10%)					
Overload	≤130%: long run; 131%-150%: 5min; 151%-200%: 1s; 201%-300%: 100ms; >300%: protect immediately.					
Overload	<u></u>	ng run, 19170-19070.	OUTPUT	, 20170 30070. 100113	, >500 %. protect init	ficulately.
Capacity (kVA)	60	80	100	120	160	200
Power Factor			1 (0.5 leading	to 0.5 lagging)		
Voltage (Vac)	380/400/415±1%					
Frequency (Hz)	50/60±0.1% (Battery mode)					
Phase	304W+PE					
Three Phase Difference	≤1%					
THDv with 100% load	<1% at linear load, <3% at non-linear load					
Transfer Time (ms)	0					
AC-AC Efficiency	up to 96.5%					
Overload*	≤105%:Long run; 106%-110% load: 60 mins, 111%-125% load: 10 mins, 126%-150% load:1 min, >150% load: 200ms					
			BATTERY			
Battery Voltage (Vdc)*	±192(±168 ~±288 adjustable) ±240(±168 ~±288 adjustable)					
BATT Type	External					
Charging Current (A) MAX*	30 60					0
			GENERAL			
Communication			RS485, MODBU	JS, dry contact		
Interface	(RS232, BMS,SNMP, expend dry contact card are optional in slot)					
Display	4.3-inch Touch screen+LED+LED bar 7-inch touch screen+L				en+LED+LED ba	
Alarm	AC input abnormal, low battery, overload, failure					
Protection	Output short-circuit, overload, over-temperature, battery low voltage, output over/low voltage					
Noise (dB)	<65					
Altitude(m)	0-2000 no derate. 2000-3000 m derate power by 1 % per each 100 m increase					
IP	20					
Working Temperature (°C)	0 ~ 40 no derate,40~50 auto derate.					
Relative Humidity	0 ~ 95%, no condensation					
Dimension (W×D×H)(mm)	400×960×1200 600×1000×1600					00×1600
Weight (kg)	145	159	161	163	310	312

• Specification is subject to change without prior notice.

* Condition comply



