



SJ9000

SJ900 series Double Conversion Online

The systems in the SJ900 Series are equipped with advanced features such as true online double conversion topology and optional control through the network. This makes the SJ900 Series the solution to handling both today's demands and those of the future.



We always keep the light
at your side

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Introduction

The need to have a reliable power source 24/7 is more important than ever in today's business environment. Supplying critical and clean power without interruption, the SJ900 Series offers high performance Uninterruptible Power Supplies for servers, networking, and other high availability equipment.

The systems in the SJ900 Series are equipped with advanced features such as true online double conversion topology and optional control through the network. This makes the SJ900 the solution to handling both today's demands and those of the future.

True Online Double Conversion

The SJ900 applies true online double conversion technology, providing you with clean and high quality power. The zero transfer time ensures that power is supplied without interruption, thereby fully protecting mission-critical devices.



Input socket on the backside of the SJ900

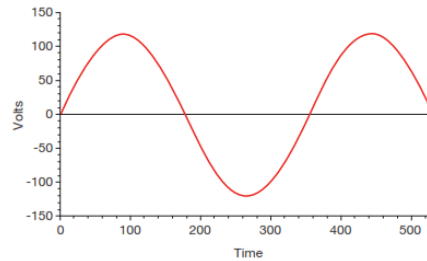
Three Phase In Single Phase Out

The SJ900 series is also available in three phase input and single phase output.

The unique designed ups systems, performs on all customer requirements by adopting an advanced digital high speed 16-bit chip, ASIC, DDC and large power IGBT & SCR.

Wide input voltage range

Extremely wide input voltage and frequency range, even in very poor power environment of the remote areas can normally supply the power. It reduced the frequency of battery discharge so that the battery life can be prolonged. The UPS contain I/P and O/P over-protection, short voltage protection, overload protection, short-circuit protection, inverter over-heat protection, battery low voltage warning protection and battery overcharge protection, etc. Which is the above greatly ensure the stability and reliability of running the system.



Pure Sine-wave

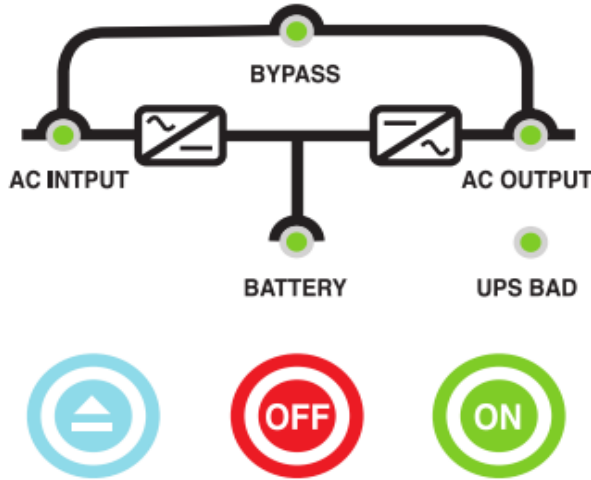
The pure sine-wave output of the SJ900 series guarantees compatibility with all kinds of loads, providing perfect power protection for versatile applications such as networking, telecoms and other mission critical usage.



SJ900II Online UPS 1-1

Friendly interface

In English and LCD display and LED status display; Rich information of UPS display Powerful extensibility feature Smart slot can provide a wealth of scalable features, you can choose to install UPS smart 2000 monitoring card, SNMP card, RS485, AS400 card, EMD environmental monitor.



Overview of the SJ900 Series buttons and indication lights located on the front of the ups

Adopt DSP digital control technology

Adopt advanced DSP digital control technology, it improves performance& system reliability effectively, and achieves higher level of power density and miniaturization. Besides that, it can meet all customer individualized needs, SJ900 II Series 1 ~ 10KVA provides very rich extensible function, user can configure the need flexibly.

Input Power Factor

Adopt digital control input PFC technology. Input Power Factor can be more than 0.98, it avoids pollution to power grid, saves energy, and also reduces cost.

Output power factor 0.8

PF 0.8 is more suitable for the trend of electrical equipment, and can take more loads. With new ECO (Economic) function, system efficiency can achieve 95%, it lower UPS power consumption and save user's cost.

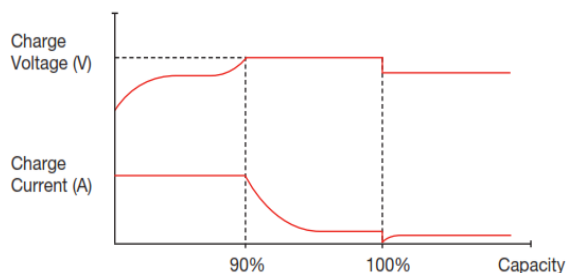


Front side of the SJ900 rack-mount

Battery Management

Advanced Battery Management

The SJ900 series is equipped with a sophisticated three step charger for efficiently charging the UPS while prolonging battery life.



Step 1

The charger provides a constant charge current until the battery has reached 90% of its capacity, meaning that the UPS is ready to operate again when a new power failure occurs.

Step 2

The charge voltage is held constant for about 60 minutes, allowing the charge current to gradually decline towards the end of this period. The battery will now have been charged to about 100% of its capacity.

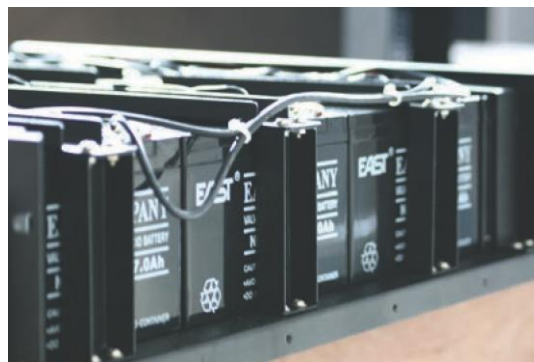
Step 3

The charge voltage drops to a float-charge in order to compensate for self-discharge, thereby prolonging the life of the batteries.

Intelligent Battery Management

It adopts intelligent management technology to charge by three steps, to effectively extend battery life and reduce the number of battery maintenance.

The battery can be self-testing to find battery problem timely. With battery voltage, overcharge protection, etc., to maximize the protection of the battery is not damaged.



Sealed Lead Acid batteries providing power to the SJ900 in case of a power failure

Optional Extended Runtime

The SJ900 series can be upgraded with extra battery packs, allowing users to increase runtime from several minutes up to several hours

Hot-swappable Battery Design

The SJ900 series' battery packs are hot-swappable and user replaceable, meaning that downtime during maintenance or replacement is kept to a minimum.

Cold start and mains power start function.

For emergency status, UPS can start with battery directly when the mains power anomalies. UPS can start directly without battery; can be used for high precision stabilizer.



Extra batteries can be easily added to extended the runtime for SJ900 Rack-mount

Control

Communication Slot

The multifunctional communication slot is conveniently located at the back of the UPS and can be used to accommodate a variety of accessory cards. The wide range of cards that are available means that the SJ900 Series can be used for various applications and in numerous locations.

Standard Shutdown Software

The SJ900 Series comes with standard software which can automatically shut-down the server or computer when a power failure occurs. This software allows the UPS to instruct the operating systems to close down a PC when it is running unattended. Users can set the parameters with which to schedule when the computer or server should shutdown, making sure that no significant data is lost and important backups are created. Updates will be automatically sent by email, so that users are always aware of what is happening, even at remote locations.

Environment Card

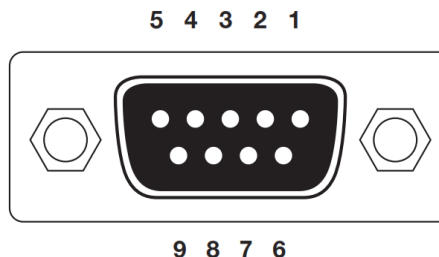


Installation of an internal SNMP card into rack-mount SJ900 UPS

The environmental card provides the functionality with which to remotely monitor environmental and UPS conditions using a standard web browser, SNMP view, or third-party network management software. Users can observe the ambient temperature, humidity, or the presence of water in the remote location, along with the status of additional contact devices such as a smoke detector or an open-door/window sensor.

RS232 + Dry Contact

The SJ900 Series is equipped with a multifunctional RS232 port. This can be used for dry contact, supplying relay functionality for a low battery, AC fail, and other common failures of custom-wired applications. It can also be connected to a computer or server for the standard shutdown software.

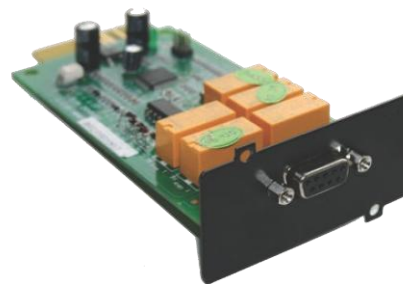


SNMP Card

The SNMP card allows users to connect the SJ900 Series directly to the ethernet network and the internet. This solution means that you can conveniently monitor and manage the UPS with a standard web browser, while simultaneously being able to shutdown multiple computers and operating systems over the network.

Relay I/O Card

The Relay I/O card can be inserted in the SNMP slot at the back of the UPS, providing dry contact relay outputs for custom-wired applications and delivering support for the built-in shutdown of AS/400 systems. This option provides contact closures for the remote monitoring of alarm conditions in the UPS, delivering signals for On Battery, On Bypass, Low Battery, Summary Alarm, UPS Fault and On UPS.



The Relay I/O card



Technical data sheet the SJ900 Online UPS

1kVA – 10kVA

| TECHNICAL SPECIFICATIONS | | | | | |
|-------------------------------------|--|--------------------|-------|--|--------|
| Model | SJ901 | SJ902 | SJ903 | SJ906 | SJ9010 |
| VA Rating | 1KVA | 2KVA | 3KVA | 6KVA | 10KVA |
| Real Power Rating | 700W | 1400W | 2100W | 4200W | 7000W |
| INPUT | | | | | |
| Voltage Range | Half-Load 120-300VAC, Full-Load 165-300 VAC | | | 176-276VAC | |
| Frequency Range | 45.5Hz – 54.5Hz | | | | |
| Power Factor | ≥ 0.95 | | | | |
| OUTPUT | | | | | |
| Voltage | 220/230/240V ± 3% | | | | |
| Frequency | 50Hz/60Hz ± 0.5% | | | | |
| Distortion | < 3% (linear Load); < 5% (Non – Linear Load) | | | | |
| Waveform | ≥ 89% (AC mode), ≥ 85% (Battery mode) | | | | |
| Overload Capability | 110%-150%: Switch to Bypass after 1Min; >150%: Shut down after 200ms | | | 110%-150%: 10Min; >150%: 1Min | |
| Crest Factor | 3:1 | | | | |
| Short Circuit | UPS turn off output and alarm | | | | |
| BATTERY | | | | | |
| Model | 12V sealed acid maintenance free | | | | |
| Voltage | 36 VDC | 96 VDC | | 240 VDC | |
| Configuration | 3×12V/7AH | 8×12V/7AH | | 20×12V/7AH | |
| Recharge Time | 90% capacity after 8hrs charging | | | | |
| Charge Current | Standard Model: 1A; Long time Mode: 7.0A | | | Standard Model: 1A; Long time Model: 5A | |
| OTHERS | | | | | |
| Optional | USB, SNMP, parallel card, input insulation transformer | | | | |
| LCD and LED | Utility, Inverter, Bypass, Battery, Load, Battery Mode, Frequency, UPS Fault Indicator | | | | |
| Audible Alarm- Battery Discharge | Utility Failure, Beep/4s; Battery low, Beep/1s | | | | |
| UPS Abnormal | Continuous Beep and Red LED on | | | | |
| Noise Level | < 55dB | | | | |
| Ambient Temperature | 0 ~ 40°C | | | | |
| Humidity | 10% - 90% | | | | |
| Dimension (W×D×H) (mm) | 145 × 415 × 215 | 190 × 470 × 330 | | 260 × 560 × 730 | |
| Net Weight (Kg) | 6.5 (H), 12.3 (S) | 13.2 (H), 28 (S) | | 40.5 (H), 86.3 (S) | |
| Packing Dimension (W×D×H) (mm) | 236 × 492 × 316 | 337 × 602 × 482 | | 335 × 650 × 815 | |
| Gross Weight (Kg) | 7.6 (H), 13.3 (S) | 14.5 (H), 29.3 (S) | | 42.8(H), 93.6 (S) | |
| Quantity / 20ft | 600 PCS | 300 PCS | | 100 PCS | |

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Technical data sheet the SJ900 Online UPS 10kVA – 20kVA (3:1)

| TECHNICAL SPECIFICATIONS | | | | |
|---------------------------------|--|------------------|------------------|------------------|
| Model | SJ39010S | SJ39010H | SJ39015H | SJ39020H |
| INPUT | | | | |
| Voltage Range | 305 V – 478 VAC | | | |
| Frequency Range | 45.5Hz – 54.5Hz | | | |
| Power Factor | ≥ 0.95 | | | |
| OUTPUT | | | | |
| Voltage | 220/230/240V ± 3% | | | |
| Frequency | 50/60Hz ± 0.5 | | | |
| Distortion | <3% (Linear Load); < 5% (Non-linear Load) | | | |
| Waveform | True Sine Wave | | | |
| Efficiency | ≥ 89% (AC mode), ≥ 85% (Battery mode) | | | |
| Overload Capability | 110%-150%: 10Min; > 150%: 1Min | | | |
| Crest Factor | 3:1 | | | |
| Short Circuit | UPS tum off output and alarm | | | |
| BATTERY | | | | |
| Model | 12V sealed lead acid maintenance free | | | |
| Voltage | 240 VDC | | | |
| Configuration | 20x12V/9AH | External Battery | External Battery | External Battery |
| Recharge Time | 90% capacity after 8 hours Charging | | | |
| Charge Current | 1.5A | 4.5A | 4.5A | 4.5A |
| OTHERS | | | | |
| Communication Interface | RS232 | | | |
| LCD and LED | Utility, Inverter, bypass, Battery, Load, Battery Mode, Frequency, UPS Fault Indicator | | | |
| Audible Alarm Battery Discharge | Utility Failure, Beep/4s; Battery low, beep/1s | | | |
| UPS Abnormal | Continuous Beep and Red LED on | | | |
| Noise Level | < 55dB | | | |
| Ambient Temperature | 0 ~ 40 °C | | | |
| Humidity | 10% -90% | | | |
| Net/Gross Weight (kg) | 87.4/97.7 | 43.7/45 | 55/62 | 55/62 |
| Unit Dimension (mm) | 260W × 560D × 730H | | | |
| Packing Dimension (mm) | 360W × 662D × 950H (with pallet) | | | |
| Quantity/ 20ft | 100 PCS | | | |

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Technical data sheet the SJ900II Online UPS 1kVA – 10kVA

| TECHNICAL SPECIFICATIONS | | | | | |
|---------------------------------|---|-----------|------------|--|---------|
| Model | SJ900II | SJ902II | SJ903II | SJ906II | SJ910II |
| Capacity | 1KVA | 2KVA | 3KVA | 6KVA | 10KVA |
| INPUT | | | | | |
| Rated input voltage | 220VAC or 210 VAC | | | 220 VAC | |
| Rated input frequency | 50Hz/ 60Hz (self-adaption) | | | | |
| Input voltage Range | 110~295 \pm 5VAC (50% load), 140~295 \pm 5VAC (Full load) or 50/60/70/80~150 \pm 5VAC (60%/70%/80%/100% load) | | | 110~295 \pm 5VAC (50% load); 140~295 \pm 5VAC (100% load) | |
| Input frequency Range | 45 – 55Hz \pm 0.5% 50Hz; 55 – 65Hz \pm 0.5% 60Hz | | | | |
| Phase | Single phase + N + GND | | | | |
| Power factor | \geq 0.98 | | | \geq 0.99 | |
| Input current (liner full load) | 5.0A or 10A | 9A or 15A | 14A or 30A | 27.0A | 46.0A |
| THD | < 6% | | | < 5% | |
| Bypass voltage range | 186VAC – 252VAC or 90VAC – 140VAC | | | 186VAC-252VAC | |
| OUTPUT | | | | | |
| Rated voltage | 208/220/230/240VAC or 100/110/115/120/127VAC can be set on LCD | | | 208/220/230/240VAC can be set on LCD | |
| Power factor | 0.8 (120V) / 0.9 (220V) | | | 0.9 | |
| Voltage distortion | \pm 1% | | | | |
| DC component voltage | \leq 200mv | | | | |
| Output current crest factor | 3:1 | | | | |
| RATE FREQUENCY | | | | | |
| AC mode | Same as input frequency | | | | |
| Battery mode | 50/60 \pm 0.2Hz | | | | |
| Phase lock speed | \leq 1Hz/s | | | | |
| Wave form | 100% linear load < 3%;100%; non-linear load < 5% | | | | |
| TRANSFER TIME | | | | | |
| From Mains mode to battery mode | 0ms | | | | |
| From battery mode to Mains mode | 0ms | | | | |



| | | | | | | |
|-------------------------------------|-----------------|--|-----------------|--------------------|--|--------------------|
| From Mains mode to bypass mode | | < 4ms | | | < 0ms | |
| From bypass mode to Mains mode | | < 4ms | | | < 0ms | |
| From normal mode to ECO mode | | ≤ 10ms | | | | |
| System Efficiency | Full load | ≥ 90 % | | | ≥ 92% | |
| | ECO mode | ≥ 94% | | | | |
| Inverter overload capacity | | 105% ~ 150% 30s transfer to bypass mode giving alarm; >150% 300ms transfer to bypass mode giving alarm; | | | | |
| BATTERY | | | | | | |
| Battery type | | Lead Acid maintenance free battery | | | | |
| DC voltage | | 24VDC | 48VDC | 72VDC | 192VDC | |
| Inbuilt battery | | 7AH/12V | 7AH/12V | 7AH/12V | 9AH/12V | |
| Battery quantity | | 2 | 4 | 6 | 16 | |
| CHARGE | | | | | | |
| Output voltage | | 27.5 ±0.4V | 55 ±0.6V | 82.5 ± 0.9V | 220.8 ±0.9V | 220.8 ±0.9V |
| Charge method | | Three-stage charging | | | | |
| Recharge time | | 90% capacity after 5hrs charging (standard model) According to battery capacity(long time model) | | | | |
| Input voltage range | | 80VAC ~ 300VAC | | | | |
| Charge current | | Standard model:1A; Long time model: 6A (Optional 12A) | | | Standard model: 1A; Long time model: 6A | |
| Protection | | Over-temp protection; Fan testing protection AC L and N connect wrong protection; Output short circuit protection | | | | |
| Control | | Silence; cold start; AC restart; Auto restart. | | | | |
| Communication | | RS232, SNMP card , USB Software function, Statue analyze: Switch on/off UPS system, Monitor UPS working state, store history | | | | |
| Display | | LCD + LED | | | | |
| SYSTEM OPERATING ENVIRONMENT | | | | | | |
| Operating environment | Operation tem. | 0 ~ 40°C | | | | |
| | Store tem | -25°C ~ 55°C | | | | |
| | Humidity | 20 ~ 90% (non-condensing) | | | | |
| | Altitude | 0m < altitude < 1500m, over 1500m, used with power derated | | | | |
| Noise | | < 50dB | | | < 5dB | |
| Dimension(W×D×H) mm | | 357144×215 | 439×190×34 | 439×190×34 | 514×262×455 (Long time model) | |
| | | | 1 | 1 | 574×262×710 (Standard model) | |
| Weight (Kg) | Long time model | 6 | 12 | 12.5 | 42 | |
| | Standard model | 10 | 20 | 24 | 57 | |

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Technical data sheet the SJ900II Rack Online UPS

1kVA – 10kVA

| TECHNICAL SPECIFICATIONS | | | | | |
|---------------------------------|---|----------|----------|----------|-----------|
| Model | SJ901IIR | SJ902IIR | SJ903IIR | SJ906IIR | SJ9010IIR |
| Capacity | 1KVA | 2KVA | 3KVA | 6KVA | 10KVA |
| INPUT | | | | | |
| Rated input voltage | 220V | | | | |
| Rated input frequency | 50Hz/60Hz (self-adaption) | | | | |
| Input voltage Range | 110 ~ 300 VAC (Half load), 140 ~ 300VAC (Full load) | | | | |
| Input frequency Range | 45 – 55Hz ± 0.5% 50Hz; 55 – 65Hz ± 0.5% 60Hz | | | | |
| Phase | Single phase +N +GND | | | | |
| Power factor | ≥ 0.98 | | | ≥ 0.99 | |
| Input current (liner full load) | 5.0A | 9.0A | 14.0A | 27.0A | 46.0A |
| THD | < 5% | | | | |
| By-Pass voltage range | 186 VAC – 252 VAC | | | | |
| OUTPUT | | | | | |
| Rated voltage | 208VAC/220VAC/230VAC/240VAC can be set on LCD | | | | |
| Power factor | 0.9 | | | | |
| Voltage distortion | ± 1% | | | | |
| DC component voltage | ≤ 200mv | | | | |
| Output current crest factor | 3:1 | | | | |
| RATED FREQUENCY | | | | | |
| AC mode | Same as input frequency | | | | |
| Battery mode | 50/60 ± 0.2Hz | | | | |
| Phase lock speed | ≤ 1Hz/s | | | | |
| Wave distortion | 100% linear load < 3%; 100%; non-linear load <5% | | | | |
| TRANSFER TIME | | | | | |
| From Mains mode to battery mode | 0ms | | | | |
| From battery mode to Mains mode | 0ms | | | | |
| From Mains mode to bypass mode | < 4ms | | | < 0ms | |
| From bypass mode to Mains mode | < 4ms | | | < 0ms | |
| From normal mode to ECO mode | ≤ 10ms | | | NO ECO | |
| System Efficiency | Full load | ≥ 90% | | | ≥ 92 % |
| | ECO mode | ≥ 94% | | | NO ECO |



| | | | | | | |
|-------------------------------------|--|--|--------------------|--|--------------------------------|-----------|
| Inverter overload capacity | 105% ~ 150% 30s transfer to bypass mode giving alarm >150% 300ms transfer to bypass mode giving alarm | | | 105%~125% 10min transfer to bypass mode giving alarm; 125%~150% 30s transfer to bypass mode giving alarm; >150% 100ms transfer to bypass mode giving alarm | | |
| BATTERY | | | | | | |
| Battery type | Lead Acid maintenance free battery | | | | | |
| DC voltage | 24VDC | 48VDC | 72VDC | 192VDC | | |
| Inbuilt battery | 9AH/12V | 9AH/12V | 9AH/12V | 9AH/12V | | |
| Battery quantity | 2 | 4 | 6 | 16 | | |
| CHARGE | | | | | | |
| Output voltage | 27.5 ±0.4V | 55 ± 0.6V | 82.5 ± 0.9V | 220.8 ± 1.0V | | |
| Charge method | Three-stage charging | | | | | |
| Recharge time | 90% capacity after 5hrs charging (standard model); According to battery capacity(long time model) | | | | | |
| Input voltage range | 80VAC ~ 300VAC | | | 150VAC ~ 300VAC | | |
| Charge current | Standard model: 1A; Long time model: 6A (Optional 12A) | | | Standard model: 1A; Long time model: 6A | | |
| Protection | Over-temp protection; Fan testing protection AC L and N connect wrong protection; Output short circuit protection | | | | | |
| Control | Silence; cold start; AC restart; Auto restart. | | | | | |
| Communication | RS232, SNMP card , USB | | | | | |
| Software function | Statue analyze: Switch on/off UPS system, Monitor UPS working state ,store history | | | | | |
| Display | LCD + LED | | | | | |
| SYSTEM OPERATING ENVIRONMENT | | | | | | |
| Operating environment | Operation tem. | 0 ~ 40 °C | | | | |
| | Store tem. | -25°C ~ 55 °C | | | | |
| | Humidity | 20 ~ 90% (non-condensing) | | | | |
| | Altitude | 0m < altitude < 1500m, over 1500m, used with power derated | | | | |
| Noise | < 50dB | | | < 55dB | | |
| UPS Dimension (W×D×H) mm | Long time mode | 483 × 442 × 88 | 483 × 442 × 88 | | 483 × 560 × 132 (UPS) | |
| | Standard mode | | 483 × 600 × 88 | | 483 × 560 × 132 (Battery bank) | |
| Packing Dimension (W×D×H) mm | Long time mode | 530 × 600 × 165 | 530 × 700 × 162 | | 535 × 660 × 215(UPS) | |
| | Standard model | | 530 × 810 × 165 | | 546 × 676 × 226 (Battery bank) | |
| Net/Gross Weight (Kg) | Long time mode | 9.5/10.5 | 12.5/13.5 | 13.5/14.5 | 19.0/21.2 | 20.0/22.2 |
| | Standard mode | 13.8/14.8 | 21.0/22.0 | 30.5/31.5 | 59.0/63.6 | 60.0/64.6 |

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Technical data sheet the SJ900 RT Online UPS

1kVA – 3kVA

| TECHNICAL SPECIFICATIONS | | | |
|---------------------------------|--|------------------------|----------------|
| Model | SJ901RT | SJ902RT | SJ903RT |
| Capacity(Linear Load) | 1KVA/ 700W | 2KVA/ 1400W | 3KVA/ 2100W |
| INPUT | | | |
| Voltage Range | Half – Load 120-300VAC, Full-Load 165~300VAC | | |
| Frequency Range | 45.5Hz ~ 54.5Hz | | |
| Power Factor | ≥ 0.95 | | |
| OUTPUT | | | |
| Voltage | 220/230/240 ± 3% | | |
| Frequency | 50/60Hz ± 0.5 | | |
| Distortion | < 3% (linear Load); < 5% (Non – Linear Load) | | |
| Waveform | True Sine Wave | | |
| Efficiency | ≥ 89% (AC mode), ≥ 85% (Battery mode) | | |
| Overload Capability | 110% - 150%: Switch to Bypass after 1Min; >150%: Shut down after 200ms | | |
| Crest Circuit | UPS turn off output and alarm | | |
| BATTERY | | | |
| Model | 12V Sealed lead acid maintenance free | | |
| Voltage | 36VDC | 96VDC | |
| Configuration | 3 × 12V/7AH | 8 × 12V/7AH | |
| Recharge Time | 90% capacity after 8 hours charging | | |
| Charge Current | Standard Model: 1A; Long time: 7.0A | | |
| OTHERS | | | |
| Optional | RS232, SNMP (optional) | | |
| LCD and LED | Utility, Inverter, Bypass, Battery, Load, Battery Mode, Frequency, UPS Fault Indicator | | |
| Audible Alarm-Battery Discharge | Utility Failure: Beep/4s; Battery low: Beep/1s | | |
| UPS Abnormal | Continuous Beep and Red LED on | | |
| Noise Level | < 55dB | | |
| Ambient Temperature | 0 ~ 40°C | | |
| Humidity | 10% - 90% | | |
| Net Weight (kg) | UPS | 13.5 | 12.5 |
| | Battery | N/A | 26.0 |
| Gross Weight (kg) | UPS | 14.0 | 13.0 |
| | Battery | N/A | 26.5 |
| Unit Dimension (mm) | UPS | 483W × 485D × 88H (2U) | |
| | Battery Pack | 483W × 485D × 88H (2U) | |
| Packing Dimension (mm) | UPS | 520W × 565D × 170H | |
| | Battery Pack | 520W × 565D × 170H | |

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Technical data sheet the SJ900 TX Online UPS 1kVA – 3kVA

| TECHNICAL SPECIFICATIONS | | | |
|---------------------------------|--|----------------------|----------------------|
| Model | SJ901TX | SJ902TX | SJ903TX |
| INPUT | | | |
| Voltage Range | Half-Load 120~300VAC, Full-Load 165~300VAC | | |
| Power Factor | ≥ 0.95 | | |
| OUTPUT | | | |
| Voltage | 220/230/240V ± 3% | | |
| Frequency | 50Hz/60Hz ± 0.5% | | |
| Distortion | < 3% (Linear Load); < 5% (Non-linear Load) | | |
| Waveform | True Sine Wave | | |
| Efficiency | ≥ 89% (AC mode), ≥ 85% (Battery mode) | | |
| Overload Capability | 110% -150%: Switch to Bypass after Min; >150%: Shut down after 200ms | | |
| Crest Factor | 3:1 | | |
| Short Circuit | UPS turn off output and alarm | | |
| BATTERY | | | |
| Model | 12V sealed lead acid maintenance free | | |
| Voltage | 36 VDC | 96 VDC | |
| Configuration | 3 × 12V/7AH | 8 × 12V/7AH | |
| Recharge Time | 90% capacity after 8hours charging | | |
| Charge Current | Standard Model: 1A; Long time Model: 7.0A | | |
| OTHERS | | | |
| Optional | UBS; SNMP, Parallel card, Input isolation transformer | | |
| LCD and LED | Utility, Inverter, Bypass, Battery, Load, Battery Mode, Frequency, UPS fault indicator | | |
| Audible Alarm-Battery Discharge | Utility Failure: Beep/4s; Battery low: Beep/1s | | |
| UPS Abnormal | Continuous Beep and Red LED on | | |
| Noise Level | < 55dB | | |
| Ambient Temperature | 0 ~ 40°C | | |
| Humidity | 10% - 90% | | |
| Net Weight(kg) | 12KG(H), 18KG(S) | 26.5KG(H), 41.5KG(S) | 31.5KG(H), 46.5KG(S) |
| Gross Weight(kg) | 13KG(H), 19KG(S) | 28KG(H), 43KG(S) | 12KG(H), 18KG(S) |
| Unit Dimension (mm) | 190W × 460D × 340H | 190W × 460D × 470H | |
| Packing Dimension (mm) | 320W × 592D × 462H | 285W × 580D × 585H | |

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Technical data sheet the SJ990 Online UPS

30kVA – 200kVA

| TECHNICAL SPECIFICATIONS | | | | | | | | |
|--|--|--------|--------|--------|---------|---------|---------|---------|
| Model | SJ9930 | SJ9940 | SJ9960 | SJ9980 | SJ99100 | SJ99120 | SJ99160 | SJ99200 |
| Capacity | 30KVA | 40KVA | 60KVA | 80KVA | 100KVA | 120KVA | 160KVA | 200KVA |
| Rating | 24 KW | 32 KW | 48 KW | 64 KW | 80 KW | 96 KW | 128 KW | 160 KW |
| MAIN INPUT | | | | | | | | |
| Voltage | 380V/400V/415V (Linear voltage) | | | | | | | |
| Phase | Three phase four wire | | | | | | | |
| Power Factor | > 0.99 | | | | | | | |
| Input current THD | < 3% | | | | | | | |
| Voltage range (Phase Voltage/ Line Voltage) | 132/228V – 277/480V | | | | | | | |
| | 176/304V – 277/480V, full load operation | | | | | | | |
| | 132/228V – 176/204V, the load capacity linear derates between 100% ~ 70% | | | | | | | |
| Frequency window | 40Hz ~ 70Hz | | | | | | | |
| BYPASS INPUT | | | | | | | | |
| Input voltage | 380/400/415V (line voltage) | | | | | | | |
| Input voltage range | +20% ~ -50% (settable) | | | | | | | |
| Input Connection | Three phase four wire | | | | | | | |
| Frequency Window | 40Hz ~ 70Hz (settable) | | | | | | | |
| OUTPUT | | | | | | | | |
| Voltage precision (balanceable load) | ± 0.5% | | | | | | | |
| Dynamic voltage transient | ± 2% (0~100% load step) | | | | | | | |
| Voltage THD (linear load) | THD < 0.5% (Phase voltage) | | | | | | | |
| Voltage THD (Non-linear load) | THD < 3% (Phase voltage) | | | | | | | |
| Power Factor | 0.8 (lag) | | | | | | | |
| Frequency track range | 50Hz/ 60Hz ± 3Hz | | | | | | | |
| Frequency Precision (Battery inversion) | ± 0.01 Hz | | | | | | | |
| Phase tolerance | 120 ± 0.5 (balance or unbalance load) | | | | | | | |
| Voltage unbalance degree (100% unbalance load) | ± 3% | | | | | | | |
| Frequency tracking speed | 0.5Hz/s to 5Hz/s settable | | | | | | | |
| Overload capability | 105%, longtime operation | | | | | | | |
| | 110%, transfer to bypass after 1 hours | | | | | | | |
| | 125%, transfer to bypass and output after 10 minutes | | | | | | | |
| | 150%, transfer to bypass after 1 minute | | | | | | | |
| | > 150%, transfer to bypass after 200ms | | | | | | | |
| | Load between 105% ~ 150%, close the inverter according to the overload curve | | | | | | | |
| Bypass overload | 150%, longtime operation | | | | | | | |
| | 150% < load < 180%, last for more than 1 minute | | | | | | | |
| | >1000%, last for more than 100ms | | | | | | | |
| Transfer Time | Line ↔ Battery: 0ms; Bypass ↔ Inverter: 0ms | | | | | | | |
| SYSTEM | | | | | | | | |
| System efficiency (linear load) | Normal mode: 93% | | | | | | | |
| | ECO mode: 98% | | | | | | | |



| | | | | | | | | |
|---------------------------------------|--|-----|--------------|-----|---------------|-----|---------------|-----|
| Battery mode efficiency (linear load) | 91% | | | | | | | |
| Display | LCD + LED | | | | | | | |
| EMI | IEC 62040 – 2 | | | | | | | |
| EMS | IEC61000 – 4 – 2 (ESD) | | | | | | | |
| | IEC61000 – 4 – 3 (RS) | | | | | | | |
| | IEC6100 – 4 – 4 (EFT) | | | | | | | |
| | IEC6100 – 4 – 5 (Surge) | | | | | | | |
| Noise (1m) | < 58dB | | < 62dB | | < 68dB | | | |
| Insulation resistance | >2M (500VDC) | | | | | | | |
| Dielectric strength | (input, output to PE) 2820 VDC, leakage current lower than 3.5mA, no flashover in 1 minute | | | | | | | |
| Surge protection | Meet the requirement of IEC60664 – 1 class IV, endure surge of 1.2/50us + 8/20us higher | | | | | | | |
| | Than 6KV/3KA | | | | | | | |
| IP class | IP20 | | | | | | | |
| Battery configuration | 20V, 40pcs (38 ~ 42 pcs acceptable) | | | | | | | |
| Installation/ Connection | Top or bottom cable connection | | | | | | | |
| Operate temperature | 0 – 40 ⁰ C | | | | | | | |
| Relative humidity | 0 – 90 ⁰ C (non-condensing) | | | | | | | |
| Weight (KG) | 310 | 320 | 360 | 400 | 570 | 600 | 650 | 680 |
| Dimension (W×D×H) (mm) | 600×800×1600 | | 700×800×1820 | | 1000×800×1880 | | 1000×800×2000 | |
| Packing Dimension (W×D×H) (mm) | 695×895×1800 | | 785×885×1980 | | 1905×895×2100 | | 1095×895×2220 | |

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SJ9000



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