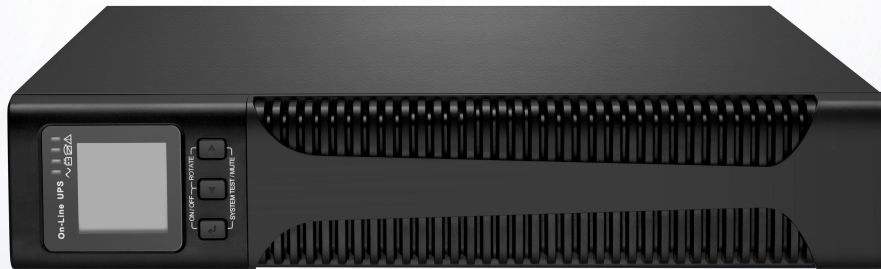


# 3000VA-10kVA On-Line UPS

Provide Uninterruptible and Perfect Power Supply for Mission-critical Equipment



## Overview

An Uninterruptible Power Supply, also called as a UPS system or UPS battery backup, protects connected equipment from power problems and provide backup power when the input power source or mains power fails. UPS with double conversion (On-Line) topology provides consistent, clean, and near perfect power with zero transfer time regardless of the condition of incoming power. It is ideal for small data centers, small and medium-sized enterprises, bank branches and other demanding power applications.

## Benefits

- Rack/Tower conversion
- High output power factor at 0.9
- Sine wave output, 0ms transfer time between On-Line and battery modes
- RS232 port, USB port, optional Web/SNMP card are available for network management
- Optional external battery packs

## Key Features

### Security

- UPS system with EMI/RFI noise filter offers clean power for connected equipment by filtering out electromagnetic and radio frequency interference to improve picture and sound quality.
- In UPS system, lower THD means reduction in peak currents, heating, emissions, and core loss in motors, which can minimize the damage to the IT equipment.
- The UPS is allowed to be shut off in the event of an emergency through the Emergency power off (EPO) port. Cold start function can startup the UPS without utility.

### Adaptability

- FS 3000VA-10kVA UPS systems come with a rack/tower convertible design. Rotatable display on LCD interface makes it flexible to fit in different environments.
- Compatible with a generator, the On-Line UPS can continually converts incoming AC power (from the main power supply or a generator) into filtered DC power, and then reconverts it back into AC power with a pure sine wave, which is the clean power your sensitive equipment .
- Configurable output voltage increases the adaptability and reliability of the UPS system when different voltages are required to the connected equipment.

### High Efficiency

- FS UPS system is controlled by digital signal processor (DSP), which enhance its performance and efficiency by self-protection, self-diagnostics and so on.
- With power factor corrected (PFC) technology, the UPS is able to reduce the amount of reactive power and increase true power used to do useful work.
- The 3-stage charging method extends the life of the batteries and guarantees fast charging.
- When the utility power is cut off or restored, it takes 0ms between the transfer of AC mode and battery mode.

## Technical Specification

### Overview

MODEL	UPS3KSP120RT UPS3KSP230RT	UPS6KSP208RT UPS6KSP230RT	UPS10KSP208RT UPS10KSP230RT
<b>UPS Topology</b>	On-Line	On-Line	On-Line
<b>Phase</b>	Single-Phase	Single-Phase	Single-Phase

### Output

MODEL	UPS3KSP120RT UPS3KSP230RT	UPS6KSP208RT UPS6KSP230RT	UPS10KSP208RT UPS10KSP230RT
<b>Power Capacity (VA)</b>	3000	6000	10k
<b>Power Capacity (W)</b>	2700	5400	9k
<b>Power Factor</b>	0.9	0.9	0.9
<b>Nominal Output Voltage</b>	UPS3KSP120RT: 120V UPS3KSP230RT: 230V	UPS6KSP208RT: 208V UPS6KSP230RT: 230V	UPS10KSP208RT: 208V UPS10KSP230RT: 230V
<b>Output Voltages Supported</b>	UPS3KSP120RT: 100/110/115/120/127V UPS3KSP230RT: 200/208/220/230/240V	200/208/220/230/240V	200/208/220/230/240V
<b>Voltage Regulation</b>	± 1%	± 2%	± 2%
<b>Frequency Range (Line Mode)</b>	45~55Hz/56~64Hz	50/60Hz ± 1%/2%/4%/5%/10%	50/60Hz ± 1%/2%/4%/5%/10%
<b>Frequency Range (Battery Mode)</b>	50/60Hz ± 0.1Hz	50/60Hz ± 0.1Hz	50/60Hz ± 0.1Hz
<b>Harmonic Distortion (Linear Load)</b>	≤3%	≤2%	≤2%
<b>Harmonic Distortion (Non-linear Load)</b>	≤6%	≤5%	≤5%
<b>Crest Factor</b>	3:1	3:1	3:1
<b>Transfer Time</b>	0ms	0ms	0ms
<b>Waveform</b>	Pure Sine wave	Pure Sine wave	Pure Sine wave
<b>Outlet Type</b>	UPS3KSP120RT: 8x C13 & 1x C19 UPS3KSP230RT: 4x 5-20R & 1x L5-30R	Hardwire & 2x C13	Hardwire & 2x C13

## Technical Specification

### Input

MODEL	UPS3KSP120RT UPS3KSP230RT	UPS6KSP208RT UPS6KSP230RT	UPS10KSP208RT UPS10KSP230RT
<b>Nominal Input Voltage</b>	UPS3KSP120RT: 120V UPS3KSP230RT: 230V	UPS6KSP208RT: 208V UPS6KSP230RT: 230V	UPS10KSP208RT: 208V UPS10KSP230RT: 230V
<b>Input Voltage Range (At 60% Load)</b>	UPS3KSP120RT: 55~150Vac UPS3KSP230RT: 110~300Vac	120~276Vac	120~276Vac
<b>Input Voltage Range (At 100% Load)</b>	UPS3KSP120RT: 80~145Vac UPS3KSP230RT: 160~300Vac	120~276Vac	120~276Vac
<b>Frequency Range</b>	45~55Hz/55~65Hz	45~55Hz/54~66Hz ± 0.5Hz	45~55Hz/54~66Hz ± 0.5Hz
<b>Power Factor</b>	≥0.99	≥0.99	≥0.99
<b>Plug Type</b>	UPS3KSP120RT: 1x L5-30P UPS3KSP230RT: 1x C20	Hardwire	Hardwire

### Battery

MODEL	UPS3KSP120RT UPS3KSP230RT	UPS6KSP208RT UPS6KSP230RT	UPS10KSP208RT UPS10KSP230RT
<b>Compatible Battery Type</b>	Lead-Acid Battery	Lead-Acid Battery	Lead-Acid Battery
<b>External Battery Voltage</b>	72Vdc	96/108/120Vdc Selectable	96/108/120Vdc Selectable
<b>Backup Time</b>	Depends on the capacity of external batteries		

### Communication and Management

MODEL	UPS3KSP120RT UPS3KSP230RT	UPS6KSP208RT UPS6KSP230RT	UPS10KSP208RT UPS10KSP230RT
<b>Control Panel</b>	LCD Display	LCD Display	LCD Display
<b>Rotatable Display on LCD Interface</b>	Yes (Controlled by buttons)	Yes (Controlled by hands)	Yes (Controlled by hands)
<b>Communications Interface</b>	RS232 Port, USB Port and Intelligent Slot	RS232 Port, USB Port and Intelligent Slot	RS232 Port, USB Port and Intelligent Slot
<b>Web/SNMP Cards</b>	Optional	Optional	Optional
<b>Emergency power off (EPO)</b>	Yes	Yes	Yes

## Technical Specification

### Physical

MODEL	UPS3KSP120RT UPS3KSP230RT	UPS6KSP208RT UPS6KSP230RT	UPS10KSP208RT UPS10KSP230RT
<b>Form Factor</b>	Rack/Tower	Rack/Tower	Rack/Tower
<b>Dimensions (H×W×D/mm)</b>	88x 440x 545mm	131x 440x 577mm	131x 440x 577mm
<b>Dimensions (H×W×D/in.)</b>	3.47"x 17.32"x 21.46"	5.16"x 17.32"x 22.72"	5.16"x 17.32"x 22.72"
<b>Net Weight</b>	11.3kg	19.1kg	25kg

### Environmental

MODEL	UPS3KSP120RT UPS3KSP230RT	UPS6KSP208RT UPS6KSP230RT	UPS10KSP208RT UPS10KSP230RT
<b>Operating Temperature</b>	0°C~40°C	0°C~40°C	0°C~40°C
<b>Storage Temperature</b>	-25°C~55°C	-25°C~55°C	-25°C~55°C
<b>Relative Humidity</b>	20~90% (non-condensing)	0~95% (non-condensing)	0~95% (non-condensing)
<b>Noise Level</b>	<50dB at 1m	<55dB at 1m	<55dB at 1m

### Battery Parameters

MODEL	UPS3KSP120RT UPS3KSP230RT	UPS6KSP208RT UPS6KSP230RT	UPS10KSP208RT UPS10KSP230RT
<b>Typical Recharge Time</b>	20	20	20
<b>Battery Qty</b>	20	16	18
<b>Capacit /Ah</b>	9	24	38
<b>Battery Boxes</b>	A4*1	A8*1	A12*1
<b>Max. DC Current (A)</b>	14A	34A	50A
<b>Air Switch (A)</b>	16A	40A	63A
<b>Wire Diameter (mm<sup>2</sup>)</b>	6	10	16



 <https://www.fs.com>



The information in this document is subject to change without notice. FS has made all efforts to ensure the accuracy of the information, but all information in this document does not constitute any kind of warranty.