

# S4K2U-D Industrial On-Line Uninterruptible Power Supply

## Introduction

SolaHD™ S4KD is a single-phase, on-line (double conversion) UPS system available in 1000-3000VA, 120V and 3000VA, 230V. The on-line design means zero transfer time from external to internal power. When your utility power fails, your critical load remains supported by a seamless flow of power. Rack or tower configurable, the SolaHD S4KD UPS offers customers a higher power factor, longer battery life, higher reliability and reduced cost of ownership. The UPS includes a colored graphic LCD display with gravity sensitive orientation provides insight into the UPS status for easy installation, configuration, diagnostics, and operation. Housed in a slim 2U (3.5") package, the SolaHD S4KD protects equipment from virtually all power disturbances due to blackouts, brownouts, sags, surges or noise interference. The UPS includes internal batteries.



## Applications

- Industrial Automation Systems
- Critical Microprocessors and PC Based Systems
- Robotics and Process Control
- Programmable Logic Controllers (PLC)

## Features

- Full-Color Graphic LCD Display
- Full metal enclosure including hinged front bezel for increased durability
- ECO Mode with user defined receptacle loading
- Energy Star 2.0 certified
- Optimized Thermal Management and variable speed fan
- Battery Health Status with Replacement Date Prediction
- Automatic internal bypass and external maintenance bypass options
- Hardwire capability for permanent installation.
- Small 2U height maximizes available space.
- Input and output noise suppression.
- Higher output power factor of 1.0
- PWM (pulse-width modulation) inverter reduces output voltage distortion.
- Add on batteries for extended back-ups.
- Integral sealed non-spillable VRLA batteries.
- Hot swappable, replaceable battery.
- Automatic restart.
- Automatic and manual battery test.
- Rack-mount or stand-alone tower mounting.
- Integral dynamic bypass reduces shutdowns.
- Compatible with most standby generators.
- Two year limited warranty.

- Mission Critical and High Speed Networks
- Enterprise Telecommunication Systems
- Pharmaceutical and Medical Diagnosis Equipment
- Printing and Publishing Machinery

## Certifications and Compliances

-  Listed, UPS Equipment
- S4K2U-D
  - UL 1778
  - CSA C22.2 No. 107.3
  - ISTA Procedure 2A,  Energy Star 2.0 Certified
- S4K2U-5D
  -  EC/EN/AS 62040-1-1:2008

## Related Products

- S4K4U (6 kVA) & S4K6U (10 kVA) Industrial On-line UPS
- S4K5U-5C (230 Vac) 6 kVA International On-Line UPS
- SDU DIN Rail AC and DC UPS
- STFE Elite Series SolaHD Tracking Filters with Surge Protection
- STV 25K DIN Rail Series
- Power Conditioning

For more information:  
[www.Emerson.com/SolaHD](http://www.Emerson.com/SolaHD)

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# S4K2U-D Industrial On-Line Uninterruptible Power Supply

## Specifications

Catalog Number	S4K2U1000-D	S4K2U1500-D	S4K2U2000-D	S4K2U3000-D	S4K2U3000S-D
Capacity (VA/Watts)	1000/900	1500/1350	2000/1800	3000/2700	3000/3000
<b>Dimensions, D x W x H, in (mm)</b>					
Unit	15.7 x 16.9 x 3.4 (400 x 430 x 85)	18.5 x 16.9 x 3.4 (470 x 430 x 85)	18.5 x 16.9 x 3.4 (470 x 430 x 85)	21.3 x 16.9 x 3.4 (540 x 430 x 85)	21.3 x 16.9 x 3.4 (540 x 430 x 85)
Shipping	24.3 x 22.4 x 10.3 (617 x 570 x 262)			28.2 x 22.4 x 10.3 (717 x 570 x 262)	28.2 x 22.4 x 10.3 (717 x 570 x 262)
<b>Weight, lbs (kg)</b>					
Unit	38 (17.2)	47.2 (21.4)	48.5 (22)	67 (30.4)	63 (28.6)
Shipping	49.9 (22.68)	57.4 (26.1)	58.7 (26.7)	77.2 (35.1)	80.2 (36.4)
<b>Input AC Parameters</b>					
Voltage Range (typical)	120 Vac nominal; Range: 60-150V				230 VAC Nominal - Variable Based on Output Load
Frequency	40 Hz to 70 Hz; auto sensing				40 Hz to 70 Hz; auto-sensing
Input Power Cord*	10 ft. attached with NEMA 5-15P plug	NEMA L5-20P or 5-20P Plug (5-20P adapter included) NEMA 5-20P plug		10 ft. attached with NEMA L5-30P plug	C20
<b>Output AC Parameters</b>					
Output Receptacles*	5-15R x 6	L5-20R + 5-15/20R x 6	L5-30R + 5-15/20R x 4	C13 (x4), C19 (x1)	
Voltage	100/110/115/120/125 VAC (user configuration); ±3%				208 VAC Nominal (Adjustable to 200/220/230/240 VAC)
Waveform	Sine wave				Sine Wave
Utility (Vac) Mode Overload	1000VA: >200% for 250ms; 150-200% for 50 sec; 125-150% for 60 sec.; 105-125% for 60 sec. 1500VA: >200% for 250ms; 150-200% for 2 sec; 125-150% for 50 sec.; 105-125% for 60 sec. 2000VA: >200% for 250ms; 150-200% for 2 sec; 125-150% for 50 sec.; 105-125% for 60 sec. 3000VA: >200% for 250ms; 150-200% for 2 sec; 125-150% for 10 sec.; 105-125% for 15 sec.				
Power Factor	0.90				0.90
<b>Battery</b>					
Type	Valve-regulated, non-spillable, lead acid				
Qty x V x Rating	3 x 12 V x 9.0 Ah	4 x 12 V x 9.0 Ah	4 x 12 V x 9.0 Ah	6 x 12 V x 9.0 Ah	6 x 12 V x 9.0 Ah
Recharge Time	3 hours to 90% capacity after full discharge with 100% load until UPS auto shutdown (internal batteries only)				
Typical Back-Up Times (minutes)*	1000VA - 7/18	1500VA - 7/19	2000VA - 4/12	3000VA - 4/12	3000S-D - 3/9
<b>Environmental Requirements</b>					
Operating Temperature	0 °C thru +40 °C (+32 °F thru +104 °F); See Operating Temperature Parameters				
Storage Temperature	-15 °C thru +50 °C (+5 °F thru +122 °F)				
Relative Humidity	0% to 95%, non-condensing				
Operating Elevation	Up to 10,000 ft. (3,000 m)				
Storage Elevation	50,000 ft. (15,000 m) maximum				

Notes:

\* Input power cord and output receptacles can be removed for hardwired applications.

\* Full/Half load (in minutes) at rated wattage.