

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)

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

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.

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

SOLAHD™



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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
Dimensions, D x W x H, in (mm)					
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 x16.9 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 103 (717 x 570 x 262)
Weight, lbs (kg)					
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)
Input AC Parameters					
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
Output AC Parameters					
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
Battery					
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
Environmental Requirements					
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.