



## SDU AC - B SERIES DIN RAIL UPS

The SolaHD SDU AC - B Series DIN Rail UPS combines an industry leading compact design with a wide operation temperature range, enhanced communication and unique installation options. The SDU Series provides economical protection from damaging impulses and power interruptions. These units include easy to wire screw terminations for critical devices needing battery back up such as computer based control systems.

### APPLICATIONS

- Programmable Logic Controllers
- Factory Automation
- Robotics
- Conveying Equipment
- Computer based Control Systems

### FEATURES

- Lightweight, compact industrial design
- Communications port for optional Industrial Ethernet protocols or discrete communication card
- User Replaceable Battery
- Long-Life High-Temperature Battery
- Wide operation temperature range (0 °C to 50 °C)
- Cold start capability
- Software and cable included for easy installation
- Simulated sinewave output
- Remote turn-on and shutdown capabilities

- USB communication port
- Two year limited warranty
- Panel/wall mounting brackets (optional)

### CERTIFICATIONS AND COMPLIANCES

- - Low Voltage Directive: EN62040-1
  - EMC Directive: EN62040-2 EN55032; EN 55011, EN 55024, EN 61000-6-1, EN 61000-6-2, EN 61000-6-3, EN 61000-6-4, EN 61326-1, EN61000-3-2, EN 61000-3-3, IEC/EN 61000-4 Series
- UL Recognized Component, UPS Equipment, E1729213
  - UL 1778 5th Ed., CSA C22.2 No. 107.3
  - Suitable for UL 508 at full load output (no derating) and Ind. Control Equipment Applications Overvoltage Cat III, Pollution Degree III

- UL Recognized Component, Hazardous Locations E491259
  - ANSI ISA 12.12.01/CSA 213
  - Class I, Division 2, Groups A, B, C, D, T4
- ODVA Compliant
  - EtherNet/IP™ SDUENETIPCARD has been tested and approved for conformance by the ODVA. More information about EtherNet/IP™ and the ODVA can be obtained from the following website: [www.odva.org](http://www.odva.org).
- RoHS Compliant

### RELATED PRODUCTS

- Portable MCR Power Conditioners
- STV Surge Protective Devices
- SDN DIN Rail Power Supplies
- STFV Plus SolaHD Tracking Filters

### SDU ACCESSORIES

Catalog Number	Description	Approx. Ship Weight - oz. (g)
SDU-PMBRK	Mounting brackets to secure UPS to wall, back of panel or enclosure	16.0 (454.0)
SDUEDC	Enhanced DIN Clip to secure UPS to DIN rail	1.6 (45.3)

### COMM CARD ACCESSORIES

Catalog Number	Description	Approx. Ship Weight - oz. (g)
<b>Active - (Industrial Ethernet)</b>		
SDUENETIPCARD	2 Port EtherNet/IP™ COMM CARD	1.0 (28.4)
SDUECATCARD	2 Port EtherCAT COMM CARD	1.0 (28.4)
SDUMBUSCARD	2 Port Modbus® - TCP COMM CARD	1.0 (28.4)
SDUPNETCARD	2 Port Profinet Industrial Protocol COMM CARD	1.0 (28.4)
<b>Passive</b>		
SDUCFRELAYCARD	SDU CF Dry Contact I/O RELAY CARD	1.0 (28.4)

**SOLAHD** For product information:  
[www.solahd.com](http://www.solahd.com)  
 1.800.377.4384



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## SPECIFICATIONS

Description	SDU 500B	SDU 850B	SDU 500B-5	SDU 850B-5
	Input			
Capacity (VA/Watts)	500/300	850/510	500/300	850/510
Nominal Voltage	120 Vac		230 Vac	
Frequency	50 or 60 Hz			
Harmonic	THD: 38.1%; Maximum single harmonic distortion of: 31.3%			
Power Factor	0.6			
	Output (Back-Up Mode)			
Voltage Vac	Simulated sinewave			
	120 V		230 V	
Frequency	50 or 60 Hz			
Transfer Time	Typical <8 ms			
	Protection			
Input (Internal)	10 A	8 A	6.3 A	
Overload Protection	UPS shutdown if overload exceeds 105% of nominal at 20 s, 120% at 10 s, 130% at 3 s; auto-recovery			
Short Circuit (Utility Mode)	In the event of dead short on the outputs of the UPS, input fuse will break Once the fuse opens, UPS goes to battery mode and goes on battery mode short circuit protection until OSCP is removed			
Short Circuit (Battery Mode)	Retry until the short circuit is removed or battery defect			
	Battery			
Type	Sealed, maintenance-free, lead acid batteries			
Typical Recharge Time	8 hours			
Typical Back-Up Time At full load/half load	4:20/14:30 min.	1:30/7:00 min.	4:20/14:30 min.	1:30/7:00 min.
	Alarm			
ON Battery	Slow beeping every 10 seconds			
Battery Low	Rapid beeping every second			
Overload	Continuous beeping sound			
	Environment			
Ambient Operation	0-95% humidity non-condensing, Ordinary Location: 0 to +50 °C (+32 to +122 °F) up to 3000 m (9842.5 ft.) Hazardous Location: 0 to +40 °C (+32 to +104 °F) up to 2000 m (6600 ft.)			
Audible Noise	< 40 dBA (1 meter from surface)			
Vibration	Operating - IEC60068-2-6, Sine Wave: 10 Hz to 60 Hz displacement of 0.35 mm, 60 Hz to 500 Hz @ 5G; 60 min. per axis for all X, Y, Z direction. Non-operating - IEC60068-2-6, Random: 5 Hz to 500 Hz@ 2 Grms; 20 min per axis for all X,Y,Z			
Shock	Operating - IEC60068-2-27, Half Sine Wave: 10 G for a duration of 10 ms, 3 shocks each in 3 axes in positive and negative direction. Non-operating - IEC60068-2-27, Half Sine Wave : 20 g for duration of 10 ms, 3 shocks in 3 axes in positive and negative direction.			
	Dimensions			
Unit (H x W x D) - in. (mm)	4.89 x 10.91 x 5.22 (124.2 x 277.0 x 132.7)			
Weight - lbs (kg)	10.8 (4.9)	11.5 (5.2)	10.8 (4.9)	11.5 (5.2)