

# **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

# **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)

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

# **CERTIFICATIONS AND COMPLIANCES** • CE

- 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
- C Sus UL Recognized Component, UPS Equipment, E179213
  - 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

- c **Fus** 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<sup>™</sup> 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.
- RoHS Compliant

# **RELATED PRODUCTS**

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

# **COMM CARD ACCESSORIES**

Catalog Number	Description	Approx. Ship Weight - oz. (g)		
Active - (Industrial Ethernet)				
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 <sup>®</sup> - TCP COMM CARD	1.0 (28.4)		
SDUPNETCARD	2 Port Profinet Industrial Protocol COMM CARD	1.0 (28.4)		
Passive				
SDUCFRELAYCARD	SDU CF Dry Contact I/O RELAY CARD	1.0 (28.4)		



For product information:



# **CONSIDER IT SOLVED**<sup>®</sup>

#### **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)					
	Simulated sinewave					
Voltage Vac	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					
Туре	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.		
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 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)		

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