

## SDU Series, DIN Rail AC UPS

The SDU DIN Rail UPS combines an industry leading compact design with a wide operation temperature range 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
- Wide operation temperature range (0°C to 50°C)
- Cold start capability
- Phone/dataline surge protection
- Software and cable included for easy installation
- Simulated sinewave output
- RS232 communication port
- USB communication port (optional)
- Form C dry contact relay (optional)
- Panel/wall mounting brackets (optional)
- Remote turn-on and shut-off capabilities
- Two year limited warranty

### Selection Table

| Capacity (VA/W) | Catalog Number   | Volts, Frequency In/Out | Typical Back-up Time (minutes) * | Input/Output Connections                                       | Approx. Ship Weight – lbs (kg) |
|-----------------|------------------|-------------------------|----------------------------------|----------------------------------------------------------------|--------------------------------|
| 500/300         | <b>SDU 500</b>   | 120 Vac, 50/60 Hz       | 4                                | IP20 touch proof, screw terminals.<br>Wire range: 10 ~ 24 AWG. | 10.7 (4.70)                    |
| 850/510         | <b>SDU 850</b>   |                         | 2                                |                                                                | 11.4 (5.00)                    |
| 500/300         | <b>SDU 500-5</b> | 230 Vac, 50/60 Hz       | 4                                |                                                                | 11.5 (5.20)                    |
| 850/510         | <b>SDU 850-5</b> |                         | 2                                |                                                                | 11.9 (5.40)                    |

\* At full load.

### SDU Accessories

| Catalog Number       | Description                                                                                                                                                                                              | Approx. Ship Weight – lbs (kg) |
|----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|
| <b>RELAYCARD-SDU</b> | Dry contact I/O relay box, IP20 touch proof screw terminals, wire size range 12~22 AWG (IEC 2.5mm); N.O./N.C. form "C" contact. Relay contact signal for "On Battery", "Low Battery" and "UPS Shutdown". | 1.0 (0.45)                     |
| <b>UPSMON-USB</b>    | RS232 to USB adapter cable                                                                                                                                                                               | 1.0 (0.45)                     |
| <b>SDU-PMBRK</b>     | Mounting brackets to secure UPS to wall, back of panel or enclosure.                                                                                                                                     | 1.0 (0.45)                     |



### Certifications and Compliances

#### All Models



- Low Voltage Directive: EN62040-1: 2008/A1: 2013
- EMC Directive: EN62040-2: 2006

#### SDU 500, SDU 850 Models

- UL Recognized Component, UPS Equipment
- UL 1778, CSA C22.2 No. 107.3
- Suitable for UL 508 with no VA derating and CSA C22.2 No. 107.1 Ind. Control Equipment Applications
- Overvoltage Cat III, Pollution Degree III

### Related Products

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

## Specifications

| Catalog Number              | SDU 500                                                                                                                                                                                                         | SDU 850     | SDU 500-5       | SDU 850-5   |
|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------|-------------|
| Capacity (VA/Watts)         | 500/300                                                                                                                                                                                                         | 850/510     | 500/300         | 850/510     |
| Load Power Factor           | 0.6                                                                                                                                                                                                             |             |                 |             |
| Dimensions – inches (mm)    |                                                                                                                                                                                                                 |             |                 |             |
| Unit (H x W x D) – in. (mm) | 4.88 x 11.1 x 4.55 (124.0 x 281.0 x 116.0)                                                                                                                                                                      |             |                 |             |
| Weight – lbs (kg)           | 10.7 (4.70)                                                                                                                                                                                                     | 11.4 (5.00) | 11.5 (5.20)     | 11.9 (5.40) |
| Input Parameters            |                                                                                                                                                                                                                 |             |                 |             |
| Voltage                     | 120 V (+10%, -20%)                                                                                                                                                                                              |             | 230 V (+/- 20%) |             |
| Frequency                   | 50 +/- 5 Hz or 60 Hz +/- 6 Hz (auto sensing)                                                                                                                                                                    |             |                 |             |
| Output AC Parameters        |                                                                                                                                                                                                                 |             |                 |             |
| Voltage (Battery Mode)      | Step sinewave                                                                                                                                                                                                   |             |                 |             |
|                             | +/- 5%                                                                                                                                                                                                          |             |                 |             |
| Frequency (On Battery)      | 50 or 60 Hz                                                                                                                                                                                                     |             |                 |             |
|                             | +/- 0.3 Hz                                                                                                                                                                                                      |             |                 |             |
| Overload Protection         | UPS automatic shutdown if overload exceeds 105% of nominal at 20 seconds, 120% at 10 seconds, 130% at 3 seconds                                                                                                 |             |                 |             |
| Short Circuit               | UPS output cut off immediately                                                                                                                                                                                  |             |                 |             |
| Battery Parameters          |                                                                                                                                                                                                                 |             |                 |             |
| Battery Type                | Sealed, non-spillable, maintenance-free lead acid batteries                                                                                                                                                     |             |                 |             |
| Transfer Time               | 4 - 6 ms typical                                                                                                                                                                                                |             |                 |             |
| Back-up Time * (minutes)    | 4.5/18                                                                                                                                                                                                          | 2.5/10      | 4.5/18          | 2.5/10      |
| Recharge Time               | 8 hours to 90% capacity after full discharge                                                                                                                                                                    |             |                 |             |
| Environmental               |                                                                                                                                                                                                                 |             |                 |             |
| Operating Temperature       | 0°C to 50°C                                                                                                                                                                                                     |             |                 |             |
| Storage Temperature         | -15°C to 60°C                                                                                                                                                                                                   |             |                 |             |
| Relative Humidity           | 1% to 95%, non-condensing                                                                                                                                                                                       |             |                 |             |
| Ambient Operation           | 1-95% humidity non-condensing, 0-50°C up to 5,000 ft. (1500m)                                                                                                                                                   |             |                 |             |
| Audible Noise               | < 40dBA (1 meter from surface)                                                                                                                                                                                  |             |                 |             |
| Standards                   |                                                                                                                                                                                                                 |             |                 |             |
| EMC                         | FCC Part 15, Subpart B, Class A; EMC: EN62040-2; EN55022; CISPR22; EN61000-3-2; IEC61000-4-2, -4-3, -4-4, -4-5, -4-6, -4-8, -2-2                                                                                |             |                 |             |
| Elevation                   | 5000 ft. without derating                                                                                                                                                                                       |             |                 |             |
| Shock & Vibration           | According to the International Safe Transit Association standard ISTA 2A.                                                                                                                                       |             |                 |             |
| Mounting                    | To be mounted on DIN TS35/7.5 or TS35/15 rail system. Chassis mounting permissible via optional brackets. Unit handles normal shock and vibration of industrial use and transportation without coming off rail. |             |                 |             |

\* At full load/half load.



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