



AMERICAN ELECTRICAL, INC.
INDUSTRIAL ELECTRICAL COMPONENTS

456 SOUTHLAKE BLVD RICHMOND, VA 23236 | FAX: 804-379-8935

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DIN RAIL UPS 300W / 500W



DIN Rail UPS
300W / 500W

PRODUCT INFO

The new Sprint Series DIN Rail AC UPS is an industrial-rated uninterruptible power supply that features a wide operational temperature range in a compact package. Using the latest micro-controller technology, the unit provides mitigation from power quality issues that adversely affect critical loads found in industrial automation, process control and other similar applications.

They are specifically designed to conveniently mount on a DIN Rail alongside similarly installed electronics such as PLC's, industrial computers, cybernetics, automation, SCADA and process control apparatus. However, due to its compact size and relative light weight, it can also be installed internal to a fab tool, CNC machine, 3-D printer or automated device or process that needs basic protection against voltage dips and momentary power interruptions.

These units contain an internal battery that is easily removable and hot-swappable. They use hard-wire terminal connections for the input and output, which is typical in these types of installations. They include both an automatic and manual self-test feature that checks the state of the battery and UPS itself. The battery is automatically charged when AC input power is present. When the incoming power falters, the unit transfers to back-up mode, indicating this state visually and audibly. If the battery is faulty, an alarm sounds and an LED indicator will illuminate.

FEATURES & BENEFITS

- Recognized to UL 1778 standards (120V Models)
- Suitable for UL508
- CE Certified (230V Models)
- Compact design in a rugged, industrially-rated enclosure
- DIN Rail, shelf or panel mount
- For wide temperature ranges, harsh environments
- IP20-rated hardwire terminals for AC connections
- Various self-diagnostics and alarm outputs
- Easily removable, hot-swappable battery with integral pull tab
- Overload, overcharge and fault protection in all modes
- No internal fan, no extra cooling required
- LED Status Indicators
- Various communication options
- Optional PCB conformal coating

APPLICATIONS

- Industrial Automation
- Process Control
- PLC's
- Mini Computers
- SCADA
- OEM Equipment
- Robotics
- Material Handling

ADDITIONAL FEATURES



AUX DC OUTPUT



REMOTE OPTIONS



RS232 & SOLID STATE CONTACTS



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Non-fusible disconnect switches
standards UL and CSA from 16 to 100 A

Specifications

Model	DINR-300	DINR-500
Capacity	500VA / 300W	850VA / 500W
INPUT		
Voltage	120V (+10%, -20%); 230V (±20%); 240V(+15% -20%)	
Frequency	50Hz ± 10%; 60Hz ± 10%	
Maximum Input Current	10A	
Inrush Current	25A	
Transient Suppression	EN61000-4-5, L-N: 1KV, L-G or N-G: 2KV	
Short Circuit Protection	Yes	
Battery String Voltage	12VDC	
OUTPUT		
Power	500W / 850VA 300W / 500VA	
Output Voltage	120V / 230V / 240V ± 5%	
Frequency (On Battery)	50 / 60HZ ±0.3Hz	
Output Power Factor	0.6	
Waveform	Stepped Square Wave	
Load Crest Factor	3:1	
Transfer time	4-6 ms typical	
Overload Capacity	UPS automatic power off if overload exceeds 105% of nominal at 20 seconds; 120% at 10 seconds; 130% at 3 seconds	
Short circuit protection	UPS output cut off immediately	
BATTERY		
Type	Sealed, maintenance-free lead acid battery	
Battery quantity	12V 7.2Ah x 1	12V 9Ah x 1
Typical recharge time	8 hours to 90% capacity after full discharge	
Backup time	100% load - 4 mins 50% load - 13 mins	100% load - 2 mins 50% load - 9 mins
GENERAL		
Dimension (W x D x H)	11.1 x 4.6 x 4.9 inches 281mm x 116mm x 124mm	
Product weight	9.7lbs / 4.4kg	10.8lbs / 4.9kg
Mounting	DIN Rail or Panel Mount	
Input Connection	Hardwire Terminal Block	
Output Connection to Loads	Hardwire Terminal Block	
Cooling	Natural Convection	
Shock and vibration	ISTA 2A	
Audible noise	< 40dBA (1meter from surface)	
Altitude, ft (m)	5000ft / 1524m without derating	
Operating temperature	32°F to 122°F / 0°C to 50°C	
Storage temperature	5°F to 140°F / -15°C to +60°C	
Humidity	<95%, non-condensing	
Cooling	Natural Convection	
Approvals	Recognized to UL1778 standards (120V Models) CSA C22.2#107.3: 2014 Ed.3 + U1 Suitable for UL508 CE Certified (230V Models)	

Part Numbers:

120V: SDRS-0300-H1, SDRS-0500-H1

230V: SDRS-0300-H2, SDRS-0500-H2