



DIN Rail UPS

300W / 500W

FEATURES & BENEFITS

- Recognized to UL 1778 standards (120V Models)
- Suitable for UL508
- CE Certified (230V Models)
- Compact design, 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
- Overload, overcharge and fault protection
- No internal fan, no extra cooling required
- LED Status Indicators
- Optional PCB conformal coating

APPLICATIONS

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

Marathon Power's 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.

COMMUNICATION OPTIONS



MODBUS NET485



DRY CONTACTS RELAY BOX



SNMP / WEBCARD



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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 500VA / 300W										
% of Max Load (Watts)	10	20	30	40	50	60	70	80	90	100
Minutes	110	48	24	15	14	10	7	6	4	4
BACKUP TIME 850VA / 500W										
% of Max Load (Watts)	10	20	30	40	50	60	70	80	90	100
Minutes	73	32	17	13	8	6	5	3	2	2
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	UL 1778:2014 Ed.5+R: 12 Oct 2017, CE (230V Models)									

Part Numbers:

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

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