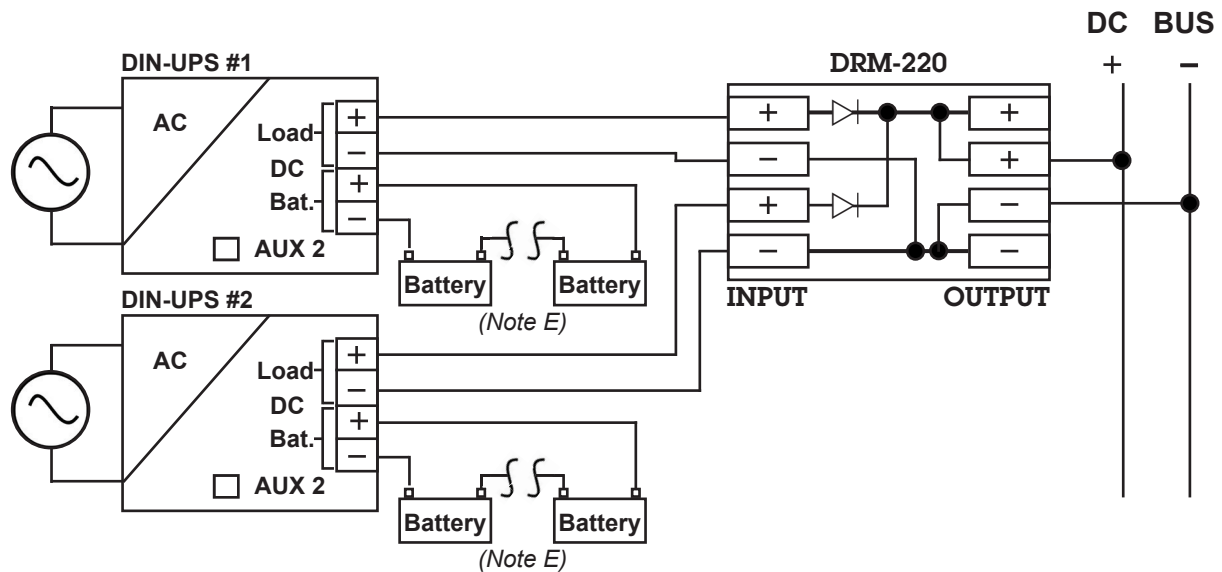


DIN UPS Redundancy Module Manual

Model: DRM-220



Parallel Connection for Redundancy

For crucial applications where loss of power can be critical or costly it is recommended that two DIN UPS units be paralleled for 1+1 redundancy. However, wiring two DIN UPS units in parallel without isolation diodes can result in both units shutting down if one develops a short on the output side. To prevent this and provide true isolation and redundancy the DRM-220 DIN-UPS Redundancy Module was developed. The isolation diodes inside the DRM-220 ensure the two DIN UPS units are isolated in the event of a DIN UPS failure, preventing a failed DIN-UPS unit from adversely affecting the other.

Wiring Instructions:

- A)** Use separate AC input fuses or circuit breakers for each DIN-UPS
- B)** Install a fuse or circuit breaker on the un-grounded side of each battery
- C)** DIN-UPS jumper setting for battery type and absorption selection should be identical for each DIN-UPS
- D)** Monitor the individual DIN-UPS units by their status and diagnosis LED's. Each unit has two alarm relays: Mains or backup and Low Battery or Battery Replacement (faulty condition). This feature reports a faulty unit; see Relay Contact Rating in DIN-UPS manual for more information.
- E)** When possible, connect each DIN-UPS' AC input to different phases or circuits.
- F)** See DIN-UPS manual for recommended wire size

Note 1: Use "P" model DIN UPS for increased current (DRM-220 not required).

Note 2: Maximum DIN-UPS current: 12.5 amps. Do not use with model DIN-UPS 12-35 if load exceeds 25 amps.

Note 3: The DRM-220 diodes will result in a voltage drop of .9V DC to the load.

M-DRM220
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Input	
In Current (Dual Input Mode; 1+1Redundancy)	2 x 12.5 A max
Input 1	10 – 60 V DC, 0 – 25 A
Input 2	10 – 60 V DC, 0 – 25 A
Peak Current	200 A for max. 10 ms
Reverse Current	25 mA max. per diode
When both inputs are used "Dual Input Mode" the output current results as the sum of the two inputs, max 25A. If used with only one input "Single Input Mode", both positive input terminals can be linked.	
Output Data	
Output Voltage "Drop Out" Vin - Vout	0.9 (max.) 0-25 A
Rated Current at 24 V 40°C (In)	25 A (permanent)
Rated Current at 24 V 50°C (In)	22 A (permanent)
Rated Current at 24 V 60°C (In)	20 A (permanent)
Current Short Circuit Icc	60 A
Dissipation power load max (W)	12
Enviromental Data	
Ambient Temperature operation	-25 up to +70 °C (>60° derating 2.5% °C)
Ambient Temperature Storage	-40 up to +85 °C
Humidity at 25 °C, no condensation	95 % to 25 °C
General Data	
Fuse: Input or output (recommended)	35 A (MCB curve B)
Protection Class (EN/IEC 60529)	IP 20
Reliability: MTBF IEC 61709	> 500.000 h
Pollution Degree Environment	2
Connection Terminal Blocks Screw Type	2,5 mm (24 – 14 AWG)
Protection class	I with PE connected
Dimension (W x H x D)	1.97" x 4.72" x 1.97" (50x120x50 mm)
Weight	1 Lb, (.4 kg.) approx.
Cooling	
Convention cooling no fan required. Leave a free space for cooling, approx. 1/2" around the device	
Norms and certifications	
The CE mark in According to EMC 89/336/EEC and 93/68/EEC and the Low voltage directive 2014/35/UE.	

Electrical Safety

In compliance to UL508.

According to IEC/EN 60950 (VDE 0805) e EN 50178 (VDE 0160) for assembling device. The unit must be installed according to IEC/EN 60950. Input / Output separation: SELV EN60950-1 and PELV EN 60204-1. Double or reinforced insulation.

Output derating Curve Continuous Load

