




# Modicon Power Supply

Regulated power supply for industrial use, rail mounting

Functional modules for Modicon ABL8RP/WP Universal Power Supply

| Functionality                    | Supplying 5 Vdc to 15 Vdc auxiliary voltage   | Continuity of service after a failure of power supply equipment | Continuity of service: Solutions to microbreaks and power outages   |    |    | Solution for discriminating protection of the application   |    |    |    |
|----------------------------------|---|---|---|----|----|---|----|----|----|
|                                  |   |   |                                        |    |    |                                        |    |    |    |
| Input Voltage                    | 24 Vdc  |   | 24 Vdc  |    |    | 24 Vdc  |    |    |    |
| Output voltage                   | 5...6.5 Vdc   | 7...15 Vdc  | 24 Vdc  |    |    | 24 Vdc  |    |    |    |
| Certifications and standards (1) | <ul style="list-style-type: none"> <li>- CE marking</li> <li>- EAC</li> <li>- CSA</li> <li>- RCM</li> <li>- UL</li> </ul> |   | <ul style="list-style-type: none"> <li>- CE marking</li> <li>- EAC</li> <li>- CSA</li> <li>- RCM</li> <li>- UL</li> </ul> |    |    | <ul style="list-style-type: none"> <li>- CE marking</li> <li>- EAC</li> <li>- CSA</li> <li>- RCM</li> <li>- UL</li> </ul> |    |    |    |
| Functional module type           | Converter module  |   | Redundancy module   |    |    |   |    |    |    |
| Output current                   | 2 A   | <a href="#">ABL8DCC12020</a>                                    |   |    |    |   |    |    |    |
|                                  | 6 A   | <a href="#">ABL8DCC05060</a>                                    |   |    |    |   |    |    |    |
|                                  | 10 A  |   |   |    |    | <a href="#">ABL8PRP24100</a>  |    |    |    |
|                                  | 20 A  |   |   |    |    |   |    |    |    |
|                                  | 40 A  |   | <a href="#">ABL8RED24400</a>  |    |    |   |    |    |    |
| Battery capacity                 | 3.2 Ah  |   |   |    |    |   |    |    |    |
|                                  | 7 Ah  |   |   |    |    |   |    |    |    |
|                                  | 12 Ah   |   |   |    |    |   |    |    |    |
| Page                             | 16  | 17  | 18  | 21 | 21 | 21  | 21 | 21 | 22 |

(1) Consult detail on conformity to standards for each reference in the product data sheet, click on [product reference](#) to open it.  
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### Continuity of service after a failure of power supply equipment

Where continuous operation of the application is the prime concern, it is necessary to know that when one power supply is not available, a second power supply takes over. The ABL8RED24400 Redundancy module can perform this function, allowing that the inoperability of one power supply does not disturb the second (for example, in the event of a short-circuit of one of the power supply outputs).

The **ABL8RED24400** redundancy module, used with two regulated power supplies of the same type, can be used to supply the nominal power to the application even if one of the power supplies is inoperable or otherwise unavailable.

The various diagnostics - on the front panel (LED) and remote (relay) can be used to inform the maintenance team as soon as the first detected error occurs on one of the power supplies.

In the event that continuity of service is a must for the application, redundancy modules can be put in cascade with addition power supplies.

**Note:** The redundancy module can be used to connect two power supplies with a maximum rating of 20 A in parallel. To connect two 40 A **ABL8WPS24400** power supplies, two **ABL8RED24400** redundancy modules must be used.

### Description

- 1 Spring clip for 35 mm (1.37 in) rail
- 2 Clip-on marker label
- 3 Input voltage status LED (green) for the first 24 Vdc power supply
- 4 Input voltage status LED (green) for the second 24 Vdc power supply
- 5 10 mm<sup>2</sup> enclosed screw terminals for connection of the 24 Vdc output voltage
- 6 10 mm<sup>2</sup> enclosed screw terminals for connection of the input voltage for the second 24 Vdc power supply ( $I \leq 20$  A)
- 7 10 mm<sup>2</sup> enclosed screw terminals for connection of the input voltage for the first 24 Vdc power supply ( $I \leq 20$  A)
- 8 Removable screw terminal block for connection of the diagnostic contact



ABL8RED24400

### References

#### Functional module

| Designation       | Functionality   | Nominal current | Reference                    | Weight<br>kg/lb |
|-------------------|---|-----------------|------------------------------|-----------------|
| Redundancy module | Continuity of service after a failure of power supply equipment | 40 A            | <a href="#">ABL8RED24400</a> | 0.700/<br>1.543 |

#### Replacement part

| Designation   | Composition               | Unit reference        | Weight<br>kg/lb |
|---------------|---------------------------|-----------------------|-----------------|
| Legend holder | Order in multiples of 100 | <a href="#">LAD90</a> | 0.001/<br>0.002 |

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