



Osnovne informacije

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|------------------------------|---|
| Grupa proizvoda | Modicon Power Supply |
| Tip proizvoda ili komponente | Napajanje |
| Tip napajanja | Regulisano |
| Nominalni ulazni napon | 100...120 V AC monofazno, priključak(čci): N-L1 200...500 V AC međufazno, priključak(čci): L1-L2 |
| Nazivna snaga u w | 240 W |
| Napon izlaza | 24 V DC |
| Napajanje strujnog izlaza | 10 A |
| Dopustiva privremena struja | 1.5 x I _n (tokom 4 s) |
| Filter za harmonike | Struja harmonika niske frekvencije |

Dopunske informacije

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|-----------------------------|--|
| Input voltage limits | 170...550 V AC 85...132 V AC |
| Udarna struja | 30 A |
| Broj 18 mm modula | 0.68 at 240 V AC 0.69 at 120 V AC |
| Efikasnost | 87 % |
| Podešavanje izlaznog napona | 24...28.8 V podesivo |
| Snaga disipacije u w | 31 W |
| Obezbeđena oprema | Filter za korekciju faktora snage u skladu sa IEC 61000-3-2 |
| Tip zaštite izlaza | Protiv preopterećenja, zaštitna tehnologija: ručni ili automatski reset Protiv prenapona, zaštitna tehnologija: 30...32 V, ručni reset Protiv kratkog spoja, zaštitna tehnologija: ručni ili automatski reset Protiv podnapona, zaštitna tehnologija: okidanje ako je U < 21.6 V Termička, zaštitna tehnologija: automatski reset |
| Povezivanje - priključci | Odvojivi vijčani priključni blok: 2 x 2.5 mm ² , za dijagnostiku releja Vijčani priključni blokovi: 3 x 0.5...3 x 4 mm ² , (AWG 22...AWG 12) za povezivanje ulaza Vijčani priključni blokovi: 1 x 0.5...1 x 4 mm ² , (AWG 22...AWG 12) za uzemljenje ulaza Vijčani priključni blokovi: 4 x 0.5...4 x 4 mm ² , (AWG 22...AWG 12) za povezivanje izlaza Vijčani priključni blokovi: 1 x 0.5...1 x 4 mm ² , (AWG 22...AWG 12) za uzemljenje izlaza |
| Statusne led lampice | 1 LED (zelena i crvena) izlazni napon 1 LED (zelena, crvena i narandžasta) izlazna struja |
| Dubina | 145 mm |
| Visina | 125 mm |
| Širina | 86 mm |
| Masa proizvoda | 1 kg |
| Spajanje izlaza | Paralelno Serijski |
| Označavanje | CE |
| Držač za montažu | 35 x 7.5 mm simetrična DIN šina 35 x 15 mm simetrična DIN šina |
| Radni položaj | Vertikalno |

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|--------------------|---|
| Napajanje | SELV u skladu sa EN/IEC 60950-1 SELV u skladu sa EN/IEC 60204-1 SELV u skladu sa IEC 60364-4-41 |
| Dielektrična snaga | 3500 V sa između ulaza i uzemljenja izolacijom 4000 V sa between input and output izolacijom 500 V sa između izlaza i uzemljenja izolacijom |

Okruženje

| | |
|---------------------------------------|--|
| Standardi | UL 508 CSA C22.2 No 60950-1 EN/IEC 62368-1 |
| Sertifikacije proizvoda | CCSAus EAC KC RCM UL |
| Karakteristike okruženja | EMC u skladu sa EN 61000-6-1 EMC u skladu sa EN 61000-6-3 EMC u skladu sa EN 55024 EMC u skladu sa EN/IEC 61000-6-4 EMC u skladu sa EN/IEC 61204-3 Bezbednost u skladu sa EN/IEC 60950-1 Bezbednost u skladu sa EN/IEC 61204-3 |
| Nadmorska visina za rad uređaja | 2000 m |
| Ip stepen zaštite | IP20 u skladu sa EN/IEC 60529 |
| Ambient air temperature for operation | 50...60 °C sa faktorom smanjenja karakteristika mounting position A < 2000 m -25...50 °C bez smanjenja karakteristika mounting position A < 2000 m |

Pakovanje

| | |
|------------------------------|----------|
| Unit Type of Package 1 | PCE |
| Number of Units in Package 1 | 1 |
| Package 1 Height | 11,4 cm |
| Package 1 Width | 16,2 cm |
| Package 1 Length | 18,0 cm |
| Package 1 Weight | 1,615 kg |
| Unit Type of Package 2 | S06 |
| Number of Units in Package 2 | 60 |
| Package 2 Height | 73,5 cm |
| Package 2 Width | 60,0 cm |
| Package 2 Length | 80,0 cm |
| Package 2 Weight | 113,0 kg |

Održivost ponude

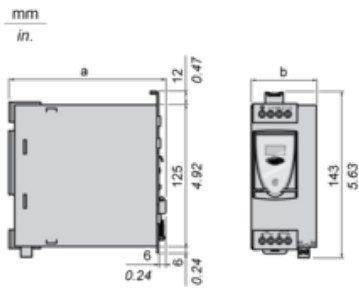
| | |
|------------------------------|--|
| Status održive ponude | Green Premium proizvod |
| Propis REACh | REACh Deklaracija |
| EU RoHS direktiva | Proaktivna usaglašenost (proizvod nije u zakonskom okviru direktive EU RoHS) EU RoHS deklaracija |
| Bez žive | Da |
| Informacije o RoHS izuzecima | Da |
| RoHS regulativa za Kinu | RoHS Deklaracija Za Kinu |
| Izjava o zaštiti okoliša | Profil Ekološke Prihvatljivosti Proizvoda |
| Profil cirkularnosti | Informacije O Kraju Radnog Veka |
| Bez PVC | Da |

Ugovorna garancija

| | |
|-----------|-----------|
| Garancija | 18 meseci |
|-----------|-----------|

Regulated Switch Mode Power Supplies

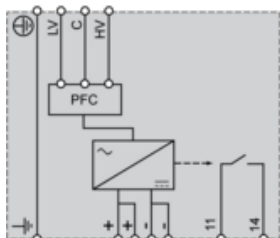
Dimensions



| ABL 8 | a in mm | a in in. | b in mm | b in in. |
|----------|---------|----------|---------|----------|
| RPS24030 | 125 | 4.92 | 45 | 1.77 |
| RPS24050 | 125 | 4.92 | 56 | 2.20 |
| RPS24100 | 145 | 5.71 | 86 | 3.39 |
| RPM24200 | 145 | 5.71 | 146 | 5.75 |
| WPS24200 | 160 | 6.30 | 96 | 3.78 |
| WPS24400 | 160 | 6.30 | 166 | 6.54 |

Regulated Switch Mode Power Supply

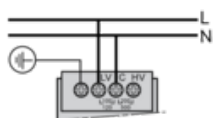
Internal Wiring Diagram



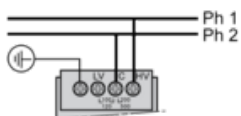
Regulated Switch Mode Power Supply

Line Supply Wiring Diagram

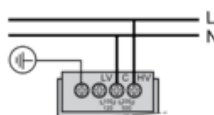
Single-phase (L-N) 100 to 120 V



Phase-to-phase (L1-L2) 200 to 500 V



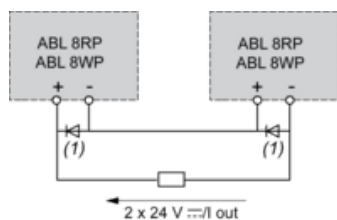
Single-phase (L-N) 200 to 500 V



Regulated Switch Mode Power Supplies

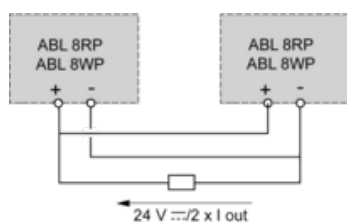
Series or Parallel Connection

Series Connection



(1) Two Schottky diodes I_{min} = power supply I_n and V_{min} = 50 V

Parallel Connection



| Family | Series | Parallel |
|--------------------|---------------------|-----------------|
| ABL 8RPS/8RPM/8WPS | 2 products max. (1) | 2 products max. |

NOTE: Series or parallel connection is only recommended for products with identical references.

For better availability, the power supplies can also be connected in parallel using the ABL8RED24400 Redundancy module.

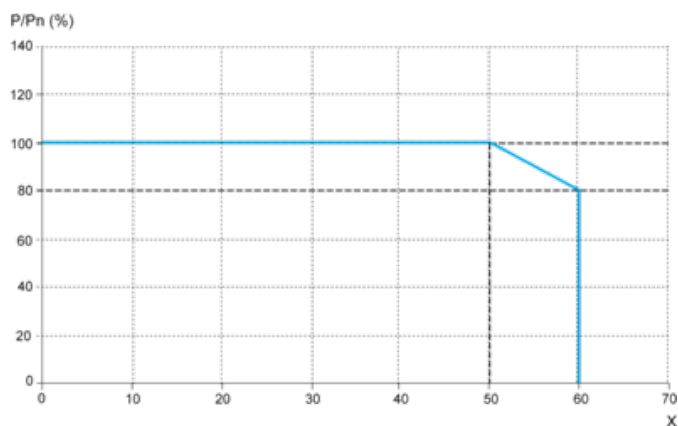
Regulated Switch Mode Power Supplies

Derating

The ambient temperature is a determining factor that limits the power an electronic power supply can deliver continuously. If the temperature around the electronic components is too high, their life will be significantly reduced.

The nominal ambient temperature for the Universal range of Phaseo power supplies is 50°C. Above this temperature, derating is necessary up to a maximum temperature of 60°C.

The graph below shows the power (in relation to the nominal power) that the power supply can deliver continuously, depending on the ambient temperature.



X Maximum operating temperature (°C)

ABL 8RPM, ABL 8RPS, ABL 8WPS mounted vertically

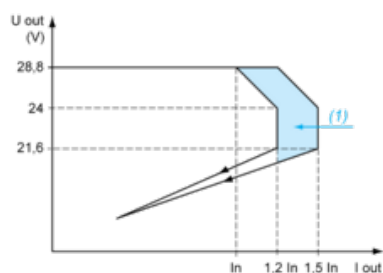
Derating should be considered in extreme operating conditions:

- Intensive operation (output current permanently close to the nominal current, combined with a high ambient temperature)
- Output voltage set above 24 Vdc (to compensate for line voltage drops, for example)
- Parallel connection to increase the total power

Regulated Switch Mode Power Supply

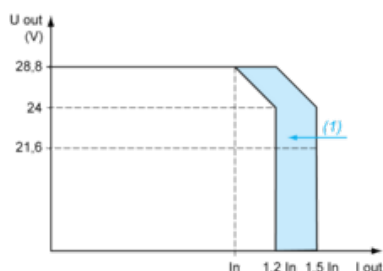
Load Limit

Manual Reset Protection Mode



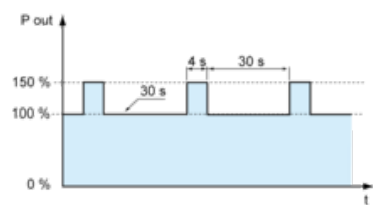
(1) Boost 4s

Automatic Reset Protection Mode



(1) Boost 4s

"Boost" Repeat Accuracy



This type of operation is described in detail in the user manual, which can be downloaded from the website.