



Osnovne informacije

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	72 W
Napon izlaza	24 V DC
Napajanje strujnog izlaza	3 A
Dopustiva privremena struja	1.5 x In (tokom 4 s)
Filter za harmonike	Struja harmonika niske frekvencije

Dopunske informacije

Ograničenje napona ulaza	170...550 V AC 85...132 V AC
Udarina struja	30 A
Broj 18 mm modula	0,51 at 240 V AC 0,59 at 120 V AC
Efikasnost	87 %
Podešavanje izlaznog napona	24...28.8 V podesivo
Snaga disipacije u w	7,8 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	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	125 mm
Visina	125 mm
Širina	45 mm
Masa proizvoda	0,3 kg
Spajanje izlaza	Paralelno Serijski
Označavanje	CE
Držač za montažu	35 x 15 mm simetrična DIN šina 35 x 7.5 mm simetrična DIN šina
Radni položaj	Vertikalno

Napajanje	SELV u skladu sa IEC 60950-1 SELV u skladu sa 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	CSA C22.2 No 60950-1 UL 508 EN/IEC 62368-1
Sertifikacije proizvoda	CCSAus[RETURN]EAC[RETURN]UL[RETURN]RCM[RETURN]KC
Karakteristike okruženja	EMC u skladu sa IEC 61000-6-1 EMC u skladu sa IEC 61000-6-3 EMC u skladu sa IEC 61000-6-2 EMC u skladu sa IEC 61000-6-4 EMC u skladu sa EN/IEC 61204-3 Bezbednost u skladu sa IEC 60950-1 Bezbednost u skladu sa EN/IEC 61204-3
Nadmorska visina za rad uređaja	2000 m
Ip stepen zaštite	IP20 conforming to 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	6,437 cm
Package 1 Width	14,493 cm
Package 1 Length	16,458 cm
Package 1 Weight	780,0 g
Unit Type of Package 2	S06
Number of Units in Package 2	120
Package 2 Height	73,5 cm
Package 2 Width	60,0 cm
Package 2 Length	80,0 cm
Package 2 Weight	100,0 kg

Održivost ponude

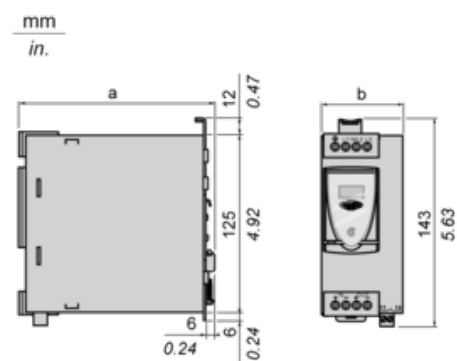
Status održive ponude	Green Premium proizvod
Propis REACH	 REACH Deklaracija
EU RoHS direktiva	Proaktivna usaglašenost (proizvod nije u zakonskom okviru direktive EU RoHS)
Bez žive	Da
RoHS regulativa za Kinu	 RoHS Deklaracija Za Kinu
Informacije o RoHS izuzecima	 Da
Izjava o zaštiti okoliša	 Profil Ekološke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

Ugovorna garancija

Garancija	18 months
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Regulated Switch Mode Power Supplies

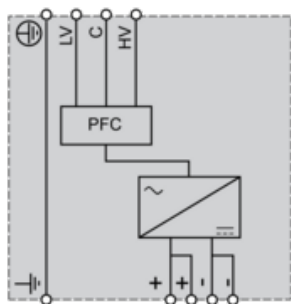
Dimensions



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

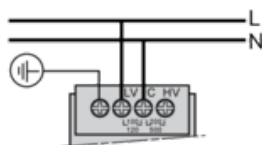
Internal Wiring Diagram



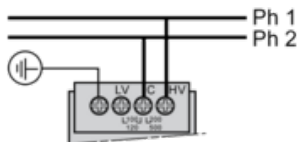
Regulated Switch Mode Power Supply

Line Supply Wiring Diagram

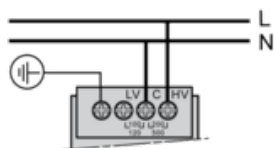
Single-phase (L-N) 100 to 120 V



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



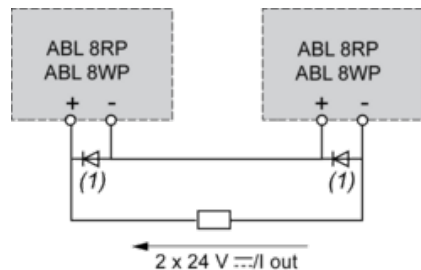
Single-phase (L-N) 200 to 500 V



Regulated Switch Mode Power Supplies

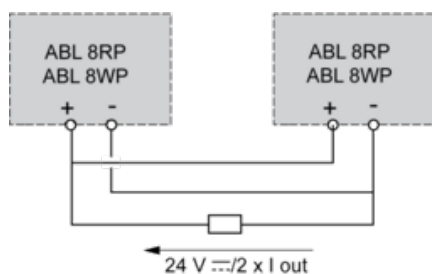
Series or Parallel Connection

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.

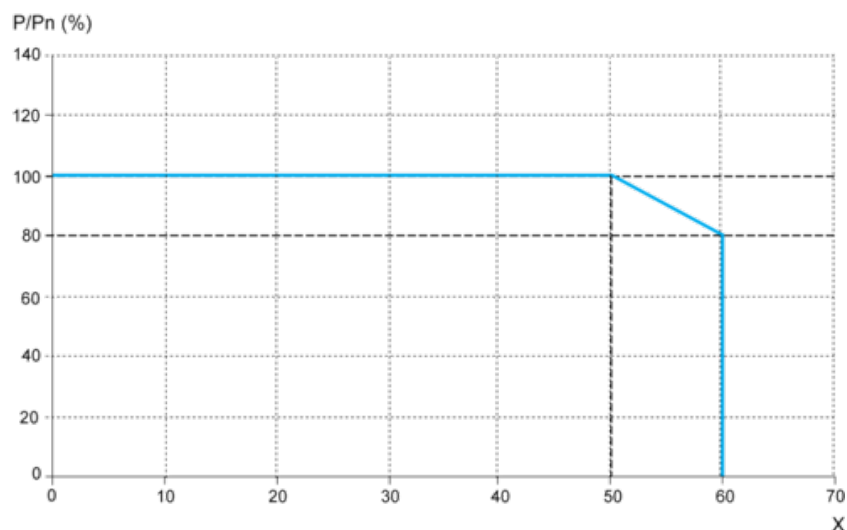
Regulated Switch Mode Power Supplies

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

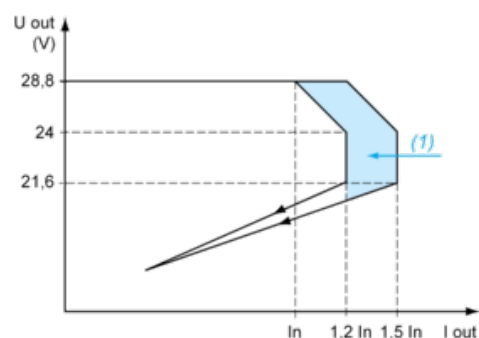
Derating should be considered in extreme operating conditions:

- 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

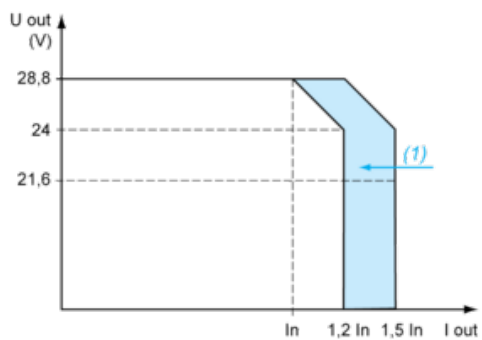
Load Limit

Manual Reset Protection Mode



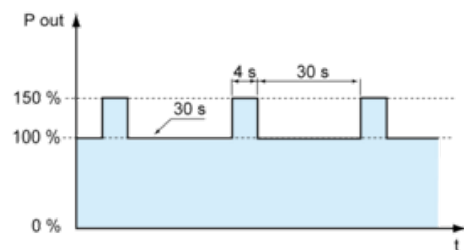
(1) Boost 4s

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.