



Teknisk informasjon

Produktspekter	Modicon Power Supply
Produkt eller type komponent	Strømforsyning
Type strømforsyning	Regulert switch mode
Nominal input voltage	100...120 V AC enfase, fane(r): N-L1 200 - 240 V AC fase til fase, fane(r): L1-L2
Merkeeffekt i W	480 W
Utgangsspenning	24 V DC
Strømforsyningens utgangsstrøm	20 A
Tillatt korttidstrøm	1.5 x In (i 4 s)
Antiharmonisk filter	Lavfrekvente overharmoniske

Komplementær

Toleranse forsyningsspenning	85...132 V AC 170...264 V AC
Startstrøm	30 A
18 mm avstand	0,68 at 240 V AC 0,69 at 120 V AC
Effektivitet	88 %
Output voltage adjustment	24...28.8 V justerbar
Effekttap i W	57,6 W
Inkludert utstyr	Effektfaktor filter i samsvar med IEC 61000-3-2
Verntype utgang	Mot overlast, vern teknologi: manuell eller automatisk reset Mot overspenning, vern teknologi: 30...32 V, manuell reset Mot kortslutning, vern teknologi: manuell eller automatisk reset Mot underspenning, vern teknologi: utkobling hvis U < 21.6 V Termisk, vern teknologi: automatisk reset
Tilkoblingsklemmer	Demonterbar blokk med skruklemmer: 2 x 2,5 mm ² , for diagnostisk relé Klemme med skruer: 3 x 0.5...3 x 4 mm ² , (AWG 22...AWG 12) for tilkobling inngang Klemme med skruer: 1 x 0.5...1 x 4 mm ² , (AWG 22...AWG 12) for jordtilkobling inngang Klemme med skruer: 4 x 0.5...4 x 4 mm ² , (AWG 22...AWG 12) for tilkobling utgang
Status LED	1 LED (grønn og rød) utgangsspenning 1 LED (Grønn, rød og orange) utgangsstrøm
Dybde	145 mm
Høyde	125 mm
Bredde	146 mm
Vekt	1,6 kg
Utgangs sammenkobling	Serie Parallell
Merking	CE
Monteringsupport	35 x 7.5 mm symmetrisk DIN skinne 35 x 15 mm symmetrisk DIN skinne
Driftsposisjon	Vertikal
Forsyning	SELV i samsvar med IEC 60950-1 SELV i samsvar med IEC 60204-1 SELV i samsvar med IEC 60364-4-41
Dielektrisk styrke	2500 V med between input and ground isolasjon 3000 V med between input and output isolasjon 500 V med between output and ground isolasjon

Miljø

Standarder	CSA C22.2 No 60950-1 UL 508 EN/IEC 62368-1
Produktsertifikater	CCSAus[RETURN]EAC[RETURN]KC[RETURN]RCM[RETURN]UL
Miljødata	EMC i samsvar med IEC 61000-6-1 EMC i samsvar med IEC 61000-6-3 EMC i samsvar med EN 55024 EMC i samsvar med IEC 61000-6-4 EMC i samsvar med EN/IEC 61204-3 Sikkerhet i samsvar med IEC 60950-1 Sikkerhet i samsvar med EN/IEC 61204-3
Driftshøyde	2000 m
IP-grad	IP20 conforming to IEC 60529 IP10
Ambient air temperature for operation	50...60 °C med belastningsfaktor mounting position A < 2000 m -25...50 °C uten lastreduksjon mounting position A < 2000 m

Forpakkingsinformasjon

Enhetstype pakke 1	PCE
Antall enheter i pakke 1	1
Pakke 1 Høyde	16,084 cm
Pakke 1 Bredde	17,706 cm
Pakke 1 Vekt	17,786 cm
Package 1 Weight	2,82 kg
Enhetstype pakke 2	S04
Antall enheter i pakke 2	6
Pakke 2 Høyde	30 cm
Pakke 2 Bredde	40 cm
Pakke 2 Lengde	60 cm
Pakke 2 Vekt	17,6 kg
Enhetstype pakke 3	P06
Antall enheter i pakke 3	36
Pakke 3 Høyde	73,5 cm
Pakke 3 Bredde	60,0 cm
Pakke 3 Lengde	80,0 cm
Pakke 3 Vekt	101,52 kg

Bærekraftig

Produktets miljøstatus	Green Premium miljømerket produkt
REACH-regelverk	 REACH-erklæring
EU RoHS-direktiv	Proaktivt i samsvar (Produktet inngår ikke i EUs RoHS direktivet)
Kvikksølvfri	Ja
Kinas RoHS-forskrift	 Kinas RoHS-Erklæring
Informasjon om RoHS-unntak	 Ja
Miljøinformasjon	 Produktmiljøprofil
Produktets livssyklus	 Informasjon Om Levetidsslutt
PVC-fri	Ja

Logistisk informasjon

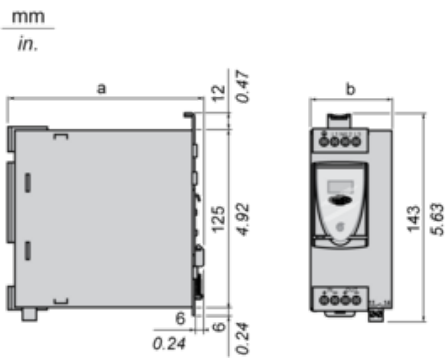
Opprinnelsesland	PH
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Garantiperiode

Garanti	18 months
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Regulated Switch Mode Power Supplies

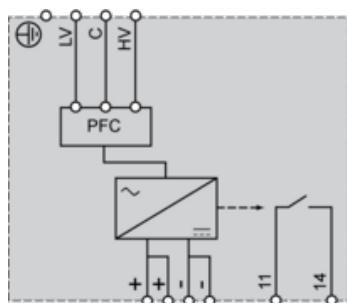
Dimensions



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

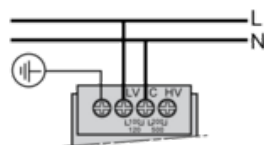
Internal Wiring Diagram



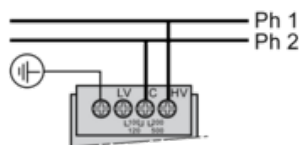
Regulated Switch Mode Power Supply

Line Supply Wiring Diagram

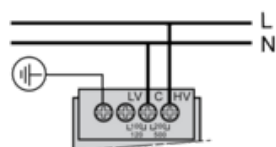
Single-phase (L-N) 100 to 120 V



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



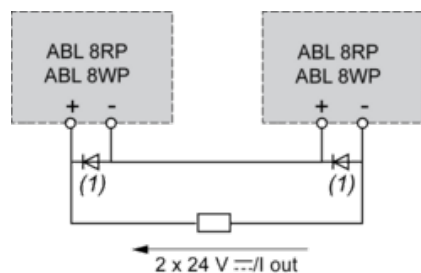
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Regulated Switch Mode Power Supplies

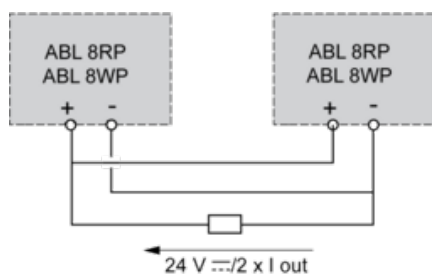
Series or Parallel Connection

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.

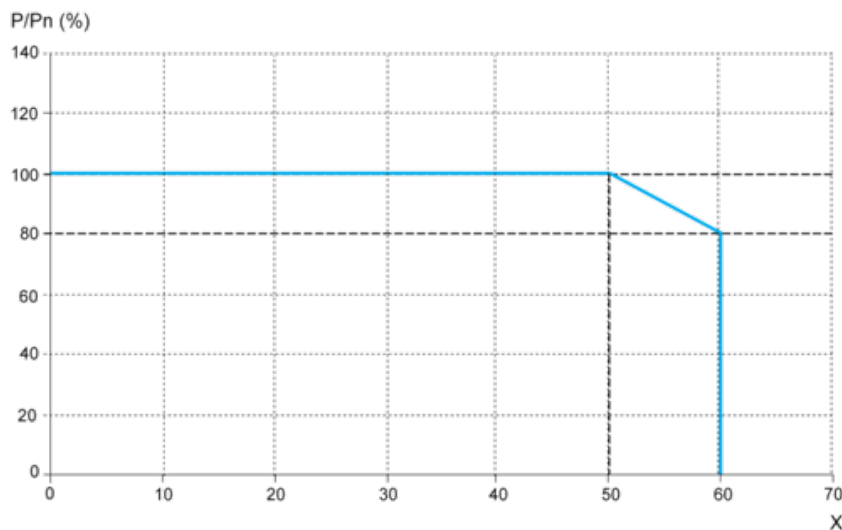
Regulated Switch Mode Power Supplies

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

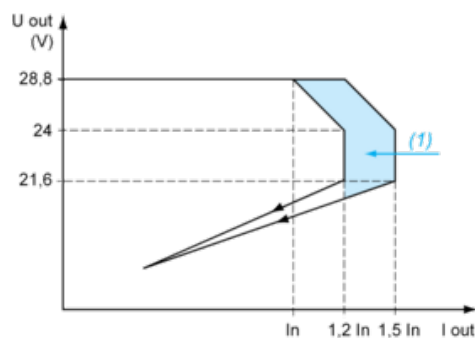
Derating should be considered in extreme operating conditions:

- 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

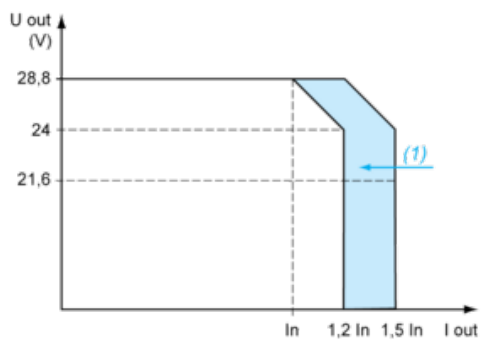
Load Limit

Manual Reset Protection Mode



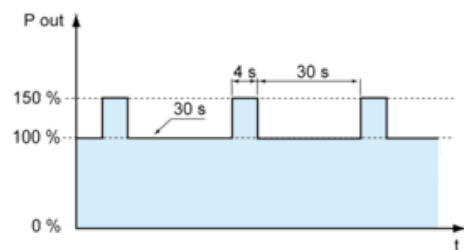
(1) Boost 4s

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.