

Regulated Power Supply, modicon power supply, 100...240V AC, 24V, 6.2A, single phase, Panel Mount

ABLP1A24062

Product availability: Stock - Normally stocked in distribution facility

Main

Range of Product	Modicon Power Supply
Product or Component Type	Power supply
Power supply type	Regulated switch mode
Variant option	Panel mount
Enclosure Material	Aluminum
Nominal input voltage	100120 V AC single phase 200240 V AC single phase
Kw Rating	150 W
Output voltage	24 V DC
Power supply output current	6.25 A

Complementary

Efficiency at full load	90132 V AC 170264 V AC
Nominal network frequency	5060 Hz
Network system compatibility	TN TT IT
Maximum leakage current	1 mA 240 V AC
Input protection type	Integrated fuse (not interchangeable) 4 A
Inrush current	35 A 115 V 70 A 230 V
Power factor	0.55 at 115 V AC 0.45 at 230 V AC
Efficiency	88.8 % 230 V AC
Output voltage adjustment	21.626.4 V
Power dissipation in W	29 W
Current consumption	< 3.2 A 115 V AC < 1.9 A 230 V AC
Turn-on time	< 500 ms
Holding time	> 20 ms 115 V AC > 40 ms 230 V AC
Startup with capacitive loads	7000 µF
Residual ripple	< 170 mV
Meantime between failure [MTBF]	700000 h at 77 °F (25 °C), full load conforming to SR 332

Price is "List Price" and may be subject to a trade discount – check with your local distributor or retailer for actual price.

Against overload and short-circuits, protection technology: automatic reset Against over temperature, protection technology: manual reset Against overvoltage, protection technology: manual reset					
Screw connection 0.752.5 mm², AWG 18AWG 14) without wire end ferrule Screw connection 0.751.5 mm², AWG 18AWG 16) with wire end ferrule					
< 0.5 % network 0 to 100 % load at 77 °F (25 °C) < 1 % network full voltage range in line at 77 °F (25 °C)					
1 LED (Green) output voltage					
6.3 in (159 mm)					
1.2 in (30 mm)					
3.8 in (97 mm)					
0.79 lb(US) (0.36 kg)					
Parallel Serial					
Top hat type TH35-15 rail IEC 60715 Top hat type TH35-7.5 rail IEC 60715 Double-profile DIN rail panel mounting					
SELV IEC 60950-1 SELV IEC 60204-1 SELV IEC 60364-4-41					
3750 V AC with input to output					
10 year(s)					
II					

Environment

Standards	IEC 62368-1 EN/IEC 61010-1 EN 61010-2-201 EN/IEC 61204-3 IEC 61000-6-1 IEC 61000-6-2 IEC 61000-6-3 IEC 61000-6-4 IEC 61000-3-2 EN 61000-3-2 UL 62368-1 UL 61010-1 UL 61010-2-201 CSA C22.2 No 62368-1 CSA C22.2 No 61010-1 CSA C22.2 No 61010-2-201 IEC 60335-1 EN/IEC 62368-1
Product certifications	CE CULus EAC RCM CB Scheme KC
Operating altitude	5000 m
Shock resistance	150 m/s² 11 ms
IP degree of protection	IP10
Ambient air temperature for operation	-2213 °F (-3025 °C) with current derating of 4 % per °C mounting position B, G < 6561.68 ft (2000 m) -13122 °F (-2550 °C) without derating mounting position B, G < 6561.68 ft (2000 m) 122158 °F (5070 °C) with current derating of 2 % per °C mounting position B, G < 6561.68 ft (2000 m)

Electrical shock protection class	Class I				
Pollution degree	2				
Vibration resistance	3 mm (f= 29 Hz) conforming to IEC 60068-2-6 10 m/s² (f= 9200 Hz) conforming to IEC 60068-2-6				
Electromagnetic immunity	Immunity to electrostatic discharge - test level: 8 kV (contact discharge) conforming to IEC 61000-4-2 Immunity to electrostatic discharge - test level: 15 kV (air discharge) conforming to IEC 61000-4-2 Immunity to conducted RF disturbances - test level: 15 V/m (80 MHz2 GHz) conforming to IEC 61000-4-3 Immunity to conducted RF disturbances - test level: 5 V/m (22.7 GHz) conforming to IEC 61000-4-3 Immunity to conducted RF disturbances - test level: 5 V/m (22.6 GHz) conforming to IEC 61000-4-3 Immunity to fast transients - test level: 4 kV (on input-output) conforming to IEC 61000-4-4 Surge immunity test - test level: 4 kV (between power supply and earth) conforming to IEC 61000-4-5 Immunity to conducted RF disturbances - test level: 15 V (0.1580 MHz) conforming to IEC 61000-4-6 Immunity to magnetic fields - test level: 30 A/m (5060 Hz) conforming to IEC 61000-4-8				
	Immunity to voltage dips conforming to IEC 61000-4-11 Disturbing field emission conforming to EN 55016-2-3 Limits for harmonic current emissions conforming to IEC 61000-3-2 conforming to EN 55016-1-2 conforming to EN 55016-2-1				
Electromagnetic emission	Conducted emissions IEC 61000-6-3 Radiated emissions IEC 61000-6-4				

Ordering and shipping details

Category	US1CP1222524
Discount Schedule	CP12
GTIN	3606481500298
Returnability	Yes
Country of origin	PH

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	1.57 in (4.000 cm)
Package 1 Width	5.75 in (14.600 cm)
Package 1 Length	8.46 in (21.500 cm)
Package 1 Weight	17.284 oz (490.000 g)
Unit Type of Package 2	S03
Number of Units in Package 2	17
Package 2 Height	11.81 in (30.000 cm)
Package 2 Width	11.81 in (30.000 cm)
Package 2 Length	15.75 in (40.000 cm)
Package 2 Weight	19.599 lb(US) (8.890 kg)



Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing "Use Better, Use Longer, Use Again" campaign to extend product lifetimes and recyclability.

Environmental Data explained >

How we assess product sustainability >

∇ Environmental footprint	
Carbon footprint (kg CO2 eq, Total Life cycle)	1252
Environmental Disclosure	Product Environmental Profile

Use Better

Packaging made with recycled cardboard	No
Packaging without single use plastic	Yes
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)
SCIP Number	E8b5e85f-3dd8-4246-afe7-a3c3cb549e5c
REACh Regulation	REACh Declaration
California proposition 65	WARNING: This product can expose you to chemicals including: Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

Use Again

○ Repack and remanufacture	
Circularity Profile	End of Life Information
Take-back	No
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.

ABLP1A24062

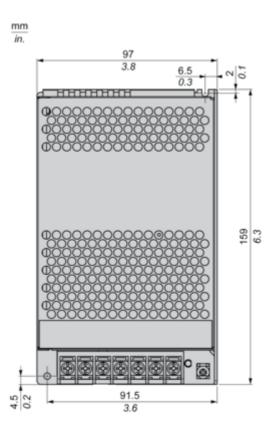
Dimensions Drawings

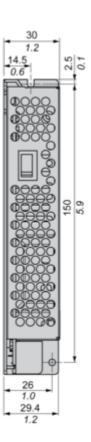
Electrical Safety

- If the unit is use in a manner not specified by the manufacturer, the protection provided by the equipment may be impaired.
- For means of disconnection a switch or circuit breaker, located near the product, must be included in the
 installation. A marking as disconnecting device for the product is required.
- The device has an internal fuse. The unit is tested and approved with branch circuit protective device up to 20A. This circuit breaker can be used as disconnecting device.
- The power supply is only suitable for audio, video, information, communication, industrial and control equipment

Dimensions

Front and Side Views

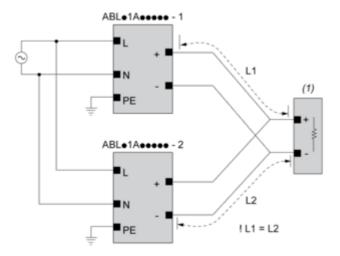




Connections and Schema

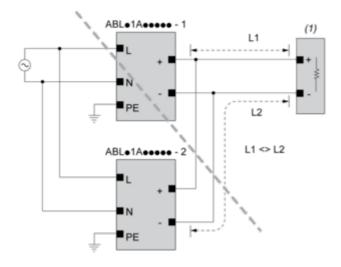
Connections and Schema

Correct Parallel Connection



(1): Load

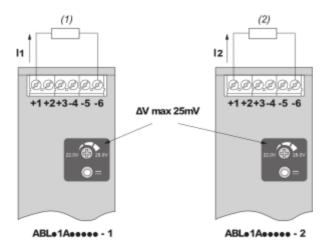
Incorrect Parallel Connection



(1): Load ABLx1Axxxxx-1 = ABLx1Axxxxx-2 max 2 x ABLx1Axxxxx L1 = L2 Δ V max 25 mV I_{Load} < 90% 2 x I_{nom}

Output Voltage Balancing

ABLP1A24062

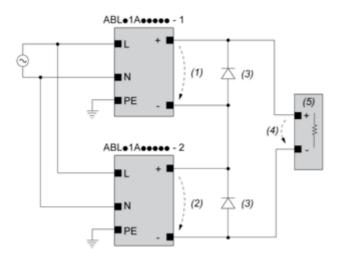


- (1): R_{Load1}
- (2): R_{Load2}

 $R_{Load1} = R_{Load2}$

 $I_1 = I_2 = \sim I_{nom}$

Series Connection



- (1): V_{out1}
- (2): V_{out2}
- (3) : 2 x Diode, V_{RRM}> 2 x V_{out1/2}, I_F > 2 x I_{nom1/2}
- (4) : V_{Load} = 2 x V_{out}
- (5) : Load

Connections and Schema

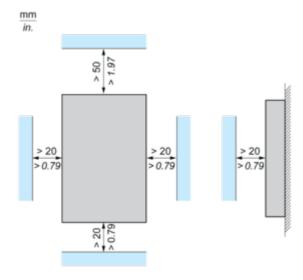
	(1)				
	<40°C	<50°C	<70°C		
ABLP1A12085	60°C	70°C	90°C		
ABLP1A24045	60°C	70°C	90°C		
ABLP1A24062	60°C	70°C	90°C		
ABLP1A24100	60°C	70°C	90°C		

(1): Ambient

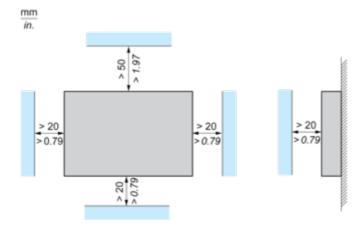
Mounting and Clearance

Mounting

Mounting Position B

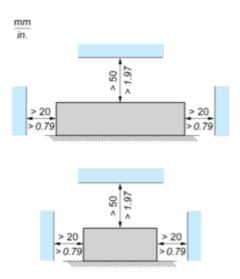


Mounting Position F

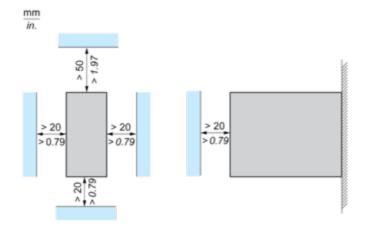


Mounting Position G

ABLP1A24062



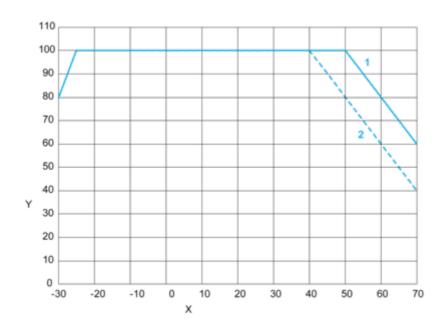
Mounting Position H



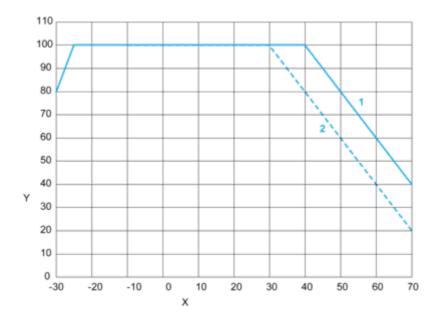
Performance Curves

Performance Curves

Mounting Position B and G

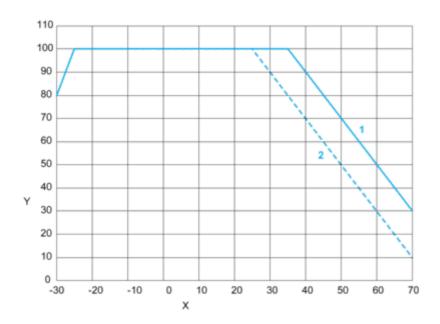


Mounting Position F



Mounting Position H

ABLP1A24062



X : Surrounding Air Temperature (°C)
Y : Percentage of Max Load (%)

1 : Altitude 2000 m **2** : Altitude 5000 m

Note: < 100 VAC additional derating by 1.33% / VAC

13

ABLP1A24062

Image of product / Alternate images

Alternative

標準品仕様表

27	rener	90-	78	tot.		PRESENT	2	関係の	RARR	NAME
,	C/DC24V	- 0		8 AN-248 19-27V		19~27V	12W		SA	
A	300/110V			AN. 1009 AN. 1009	_	90~130V		7W	1A	No
AC300/310V AC300/320V		- 8		ABL 2008 ABL-2009		180~240V		7W 0.5A		
	光源 花光素度 戸			Nesa	1960 50				HEM	
ABL-24 ABL-100 ABL-100	818	140min* (*1)	1965 94801468	Del 1875	000 004 018,84155/19 12/5W ## #RRST 0064 018,84155/19 12/5W 2/0-7			アルミの金額00ペアミラー (研究ガラス/メラクリル)	OWNER	







15





