Specifications



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

ABLP1A24062

Main

Man	
Range of product	Modicon Power Supply
Product or component type	Power supply
Power supply type	Regulated switch mode
Variant option	Panel mount
Enclosure material	Aluminium
Nominal input voltage	100120 V AC single phase 200240 V AC single phase
Input voltage limits	90132 V AC 170264 V AC
Rated power in W	150 W
Output voltage	24 V DC
Power supply output current	6.25 A

Complementary

5060 Hz
TN TT IT
1 mA 240 V AC
Integrated fuse (not interchangeable) 4 A
35 A at 115 V 70 A at 230 V
0.55 at 115 V AC 0.45 at 230 V AC
88.8 % at 230 V AC
21.626.4 V
29 W
< 3.2 A 115 V AC < 1.9 A 230 V AC
< 500 ms
> 20 ms 115 V AC > 40 ms 230 V AC
7000 µF
< 170 mV



Expected capacitor life time	10 year(s)		
Meantime between failure [MTBF]	700000 h at 25 °C, full load conforming to SR 332		
Output protection type	Against overload and short-circuits, protection technology: automatic reset Against over temperature, protection technology: manual reset Against overvoltage, protection technology: manual reset		
Connections - terminals	Screw connection: 0.752.5 mm ² , (AWG 18AWG 14) without wire end ferrule Screw connection: 0.751.5 mm ² , (AWG 18AWG 16) with wire end ferrule		
Line and load regulation	< 0.5 %line < 1 %load		
Status LED	1 LED (green)output voltage		
Depth	159 mm		
Height	30 mm		
Width	97 mm		
Net weight	0.36 kg		
Output coupling	Parallel Serial		
Mounting support	Top hat type TH35-15 rail conforming to IEC 60715 Top hat type TH35-7.5 rail conforming to IEC 60715 Double-profile DIN rail panel mounting		
Supply	SELV conforming to EN/IEC 60950-1 SELV conforming to EN/IEC 60204-1 SELV conforming to IEC 60364-4-41		
Environment			
Standards	EN 62368-1 EN/IEC 61010-1 EN 61010-2-201 EN/IEC 61204-3 EN 61000-6-1 EN 61000-6-2 EN 61000-6-3 EN 61000-3-2 EN 61000-3-2 EN 61000-3-3 UL 62368-1 UL 61010-1 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		
Environmental characteristic	3M4 conforming to IEC 60721-3-3		
Operating altitude	5000 m		
Shock resistance	100 m/s ² for 11 ms		
IP degree of protection	IP10		
Ambient air temperature for operation	-3070 °C		
Ambient air temperature for storage	-4085 °C		
Relative humidity	095 % without condensation		
Overvoltage category	II		
Electrical energy source class conforming to IEC 62368-1	ES1		

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: 6 kV (contact discharge) conforming to EN/IEC 61000-4-2 Immunity to electrostatic discharge - test level: 9 kV (air discharge) conforming to EN/IEC 61000-4-2 Immunity to conducted RF disturbances - test level: 10 V/m (80 MHz2 GHz) conforming to EN/IEC 61000-4-3 Immunity to conducted RF disturbances - test level: 5 V/m (22.7 GHz) conforming to EN/IEC 61000-4-3 Immunity to conducted RF disturbances - test level: 3 V/m (2.76 GHz) conforming to EN/IEC 61000-4-3 Immunity to conducted RF disturbances - test level: 3 V/m (2.76 GHz) conforming to EN/IEC 61000-4-3 Immunity to fast transients - test level: 4 kV (on input-output) conforming to EN/IEC 61000-4-4 Surge immunity test - test level: 3 kV (between power supply and earth) conforming to EN/IEC 61000-4-5 Surge immunity test - test level: 1.5 kV (between phases) conforming to EN/IEC 61000-4-5 Immunity to conducted RF disturbances - test level: 10 V (0.1580 MHz) conforming to EN/IEC 61000-4-6 Immunity to magnetic fields - test level: 30 A/m (5060 Hz) conforming to EN/IEC 61000-4-8 Immunity to voltage dips conforming to EN/IEC 61000-4-11 Disturbing field emission conforming to EN/IEC 61000-3-2 Conducted disturbance emissions conforming to EN 61000-3-2 Conducted disturbance emission conforming to EN 55016-1-2 Conducted disturbance emission conforming to EN 55016-2-1	
Electromagnetic emission	Conducted emissions conforming to EN 61000-6-3 Radiated emissions conforming to EN 61000-6-4	
Dielectric strength	3750 V AC input to output	

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Weight	504 g
Package 1 Height	4 cm
Package 1 width	14.6 cm
Package 1 Length	21.5 cm
Unit Type of Package 2	S03
Number of Units in Package 2	17
Package 2 Weight	9.099 kg
Package 2 Height	30 cm
Package 2 width	30 cm
Package 2 Length	40 cm

Offer Sustainability

Sustainable offer status	Green Premium product	
REACh Regulation	REACh Declaration	
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration	
Mercury free	Yes	
RoHS exemption information	Yes	
China RoHS Regulation	China RoHS declaration	
Environmental Disclosure	Product Environmental Profile	
Circularity Profile	End of Life Information	
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins	



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

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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 devi
- 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 d
- The power supply is only suitable for audio, video, information, communication, industrial and control equipment.

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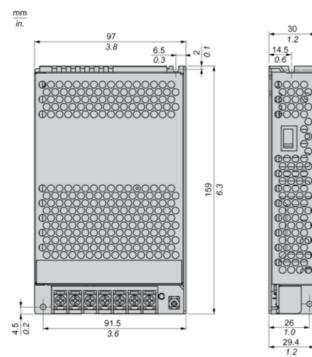
2.5

5.9

Dimensions Drawings

Dimensions

Front and Side Views

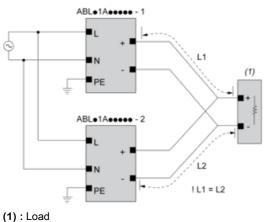


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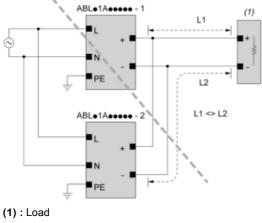
Connections and Schema

Connections and Schema

Correct Parallel Connection

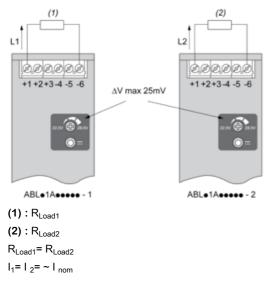


Incorrect Parallel Connection

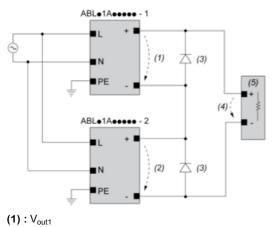


ABLx1Axxxxx-1 = ABLx1Axxxxx-2 max 2 x ABLx1Axxxxx L1 = L2 ΔV max 25 mV L_{Load} < 90% 2 x L_{nom}

Output Voltage Balancing



Series Connection



- (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

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Connections and Schema

Connections and Schema

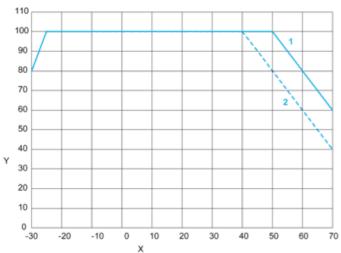
	(1)		
	<40°C	<50°C	<70ºC
ABLP1A12085	60°C	70°C	90°C
ABLP1A24045	60°C	70°C	90°C
ABLP1A24062	60°C	70°C	90°C
ABLP1A24100	60°C	70°C	90°C

(1): Ambient

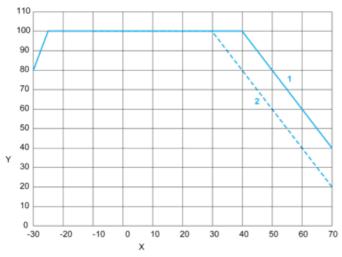
Performance Curves

Performance Curves

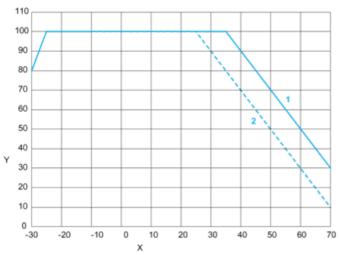
Mounting Position B and G



Mounting Position F



Mounting Position H



X : Surrounding Air Temperature

- ${\bf Y}$: Percentage of Max Load (%)
- 1 : Altitude 2000 m
- 2 : Altitude 5000 m

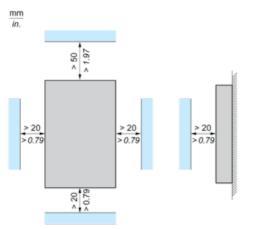
Note : < 100 VAC additional derating by 1.33% / VAC

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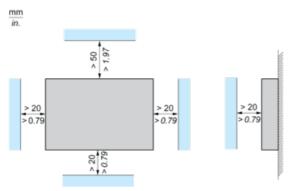
Mounting and Clearance

Mounting

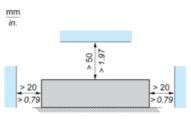
Mounting Position B

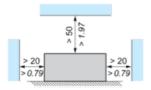


Mounting Position F

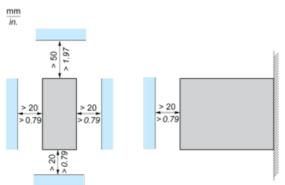


Mounting Position G





Mounting Position H



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 LDIN100150

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 LPX17S-C
 EVS57-10R6/R
 FP80
 FRV7000G
 22929
 PS3E-F12F
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 40370121900
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 40370121910
 LDIN5075
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