# Product data sheet
## Characteristics

# ABLP1A24062
Regulated Power Supply, modicon power supply, 100...240V AC, 24V, 6.2A, single phase, Panel Mount



## Main

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|---|---|
| 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 |
| Input voltage | 100...120 V AC single phase<br>200...240 V AC single phase |
| Rated power in W | 150 W |
| Output voltage | 24 V DC |
| Power supply output current | 6.25 A |

## Complementary

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|---|---|
| Input voltage limits | 90...132 V AC<br>170...264 V AC |
| Network frequency limits | 50…60 Hz |
| Earthing system | TN<br>TT<br>IT |
| Maximum leakage current | 1 MA 240 V AC |
| Input protection type | Integrated fuse (not interchangeable) 4 A |
| Inrush current | 35 A at 115 V<br>70 A at 230 V |
| Power factor | 0.55 at 115 V AC<br>0.45 at 230 V AC |
| Efficiency | 88.8 % at 230 V AC |
| Output voltage limits | 21.6...26.4 V |
| Power dissipation in W | 29 W |
| Current consumption | < 3.2 A 115 V AC<br>< 1.9 A 230 V AC |
| Response time | < 500 ms |
| Holding time | > 20 ms 115 V AC<br>> 40 ms 230 V AC |
| Load capacitance | 7000 MF |
| Residual ripple | < 170 mV |
| 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<br>Against over temperature, protection technology: manual reset<br>Against overvoltage, protection technology: manual reset |

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| Connections - terminals | Screw connection: 0.75...2.5 mm², (18 AWG...14 AWG) without wire end ferrule<br>Screw connection: 0.75...1.5 mm², (18 AWG...16 AWG) with wire end ferrule |
| Line and load regulation | < 0.5 % at 0 to 100 % load at 25 °C<br>< 1 % at full voltage range in line at 25 °C |
| Status LED | 1 LED (green) output voltage |
| Depth | 159 Mm |
| Height | 30 Mm |
| Width | 97 Mm |
| Net weight | 0.36 Kg |
| Output coupling | Parallel<br>Serial |
| Mounting support | Top hat type TH35-15 rail conforming to IEC 60715<br>Top hat type TH35-7.5 rail conforming to IEC 60715<br>Double-profile DIN rail<br>panel mounting |
| Supply | SELV conforming to IEC 60950-1<br>SELV conforming to IEC 60204-1<br>SELV conforming to IEC 60364-4-41 |
| Dielectric strength | 3750 V AC with input to output |
| Service life | 10 Year(S) |
| Overvoltage category | II |

## Environment

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|---|---|
| Standards | IEC 62368-1<br>EN/IEC 61010-1<br>EN 61010-2-201<br>EN/IEC 61204-3<br>IEC 61000-6-1<br>IEC 61000-6-2<br>IEC 61000-6-3<br>IEC 61000-6-4<br>IEC 61000-3-2<br>EN 61000-3-3<br>UL 62368-1<br>UL 61010-1<br>UL 61010-2-201<br>CSA C22.2 No 62368-1<br>CSA C22.2 No 61010-1<br>CSA C22.2 No 61010-2-201<br>IEC 60335-1 |
| Product certifications | CE[RETURN]CULus[RETURN]EAC[RETURN]RCM[RETURN]CB Scheme[RETURN]KC |
| Operating altitude | 5000 m |
| Shock resistance | 150 m/s² for 11 ms |
| IP degree of protection | IP10 |
| Ambient air temperature for operation | -30…-25 °C with current derating of 4 % per °C mounting position B, G < 2000 m<br>-25…50 °C without derating mounting position B, G < 2000 m<br>50…70 °C with current derating of 2 % per °C mounting position B, G < 2000 m |
| Electrical shock protection class | Class I |
| Pollution degree | 2 |
| Vibration resistance | 3 mm (f= 2…9 Hz) conforming to IEC 60068-2-6<br>10 m/s² (f= 9…200 Hz) conforming to IEC 60068-2-6 |
| Electromagnetic compatibility | Immunity to electrostatic discharge - test level: 8 kV (contact discharge) conforming to IEC 61000-<br>Immunity to electrostatic discharge - test level: 15 kV (air discharge) conforming to IEC 61000-4-2<br>Immunity to conducted RF disturbances - test level: 15 V/m (80 MHz...2 GHz) conforming to IEC 6<br>Immunity to conducted RF disturbances - test level: 5 V/m (2...2.7 GHz) conforming to IEC 61000-<br>Immunity to conducted RF disturbances - test level: 5 V/m (2.7...6 GHz) conforming to IEC 61000-<br>Immunity to fast transients - test level: 4 kV (on input-output) conforming to IEC 61000-4-4<br>Surge immunity test - test level: 4 kV (between power supply and earth) conforming to IEC 61000-<br>Surge immunity test - test level: 3 kV (between phases) conforming to IEC 61000-4-5<br>Immunity to conducted RF disturbances - test level: 15 V (0.15...80 MHz) conforming to IEC 6100<br>Immunity to magnetic fields - test level: 30 A/m (50...60 Hz) conforming to IEC 61000-4-8<br>Immunity to voltage dips conforming to IEC 61000-4-11<br>Disturbing field emission conforming to EN 55016-2-3<br>Limits for harmonic current emissions conforming to IEC 61000-3-2<br>Conforming to EN 55016-1-2<br>conforming to EN 55016-2-1 |
| Electromagnetic emission | Conducted emissions conforming to IEC 61000-6-3<br>Radiated emissions conforming to IEC 61000-6-4 |

## Packing Units

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|---|---|
| Unit Type of Package 1 | PCE |
| Number of Units in Package 1 | 1 |
| Package 1 Height | 4.000 Cm |
| Package 1 Width | 14.600 Cm |
| Package 1 Length | 21.500 Cm |
| Package 1 Weight | 490.000 G |
| Unit Type of Package 2 | S03 |
| Number of Units in Package 2 | 17 |
| Package 2 Height | 30 Cm |
| Package 2 Width | 30 Cm |
| Package 2 Length | 40 Cm |
| Package 2 Weight | 8.890 Kg |

## Offer Sustainability

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| Recyclability potential, in % | 41 |
| Total lifecycle Carbon footprint | 1 448 kg CO2 eq. |
| Carbon footprint of the manufacturing phase [A1 to A3] | 6.203458724815221 |
| Carbon footprint of the manufacturing phase [A1 to A3] | 6 kg CO2 eq. |
| Carbon footprint of the distribution phase [A4] | 0.09989869336850922 |
| Carbon footprint of the distribution phase [A4] | 0.1 kg CO2 eq. |
| Carbon footprint of the installation phase [A5] | 0.005312835220766836 |
| Carbon footprint of the installation phase [A5] | 0 kg CO2 eq. |
| Carbon footprint of the use phase [B2, B3, B4, B6] | 1441.618363278637 |
| Carbon footprint of the use phase [B2, B3, B4, B6] | 1 442 kg CO2 eq. |
| Mercury free | Yes |
| Sustainable packaging | No |
| Carbon footprint of the end-of-life phase [C1 to C4] | 0.5440515195504048 |
| Carbon footprint of the end-of-life phase [C1 to C4] | 0.5 kg CO2 eq. |
| Environmental Disclosure | Product Environmental Profile |
| Total lifecycle Carbon footprint | 1448 |
| Packaging made with recycled cardboard | No |
| Packaging without single use plastic | Yes |
| SCIP Number | E8b5e85f-3dd8-4246-afe7-a3c3cb549e5c |
| REACh Regulation | Reference contains Substances of Very High Concern above the threshold |
| EU RoHS Directive | Compliant By Exemption |
| California proposition 65 | WARNING: This product can expose you to chemicals including: Lead and lead compounds, w |
| End of life manual availability | End Of Life Information |
| Take-back | No |
| WEEE Label | The product must be disposed on European Union markets following specific waste collection a |

## Contractual warranty

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| Warranty (in months) | 18 |

Product Life Status : Commercialised