



# Modicon Din-Rail ABLSE Series Regulated Switch Mode Power Supplies

## Product introduction

● **Modicon ABLSE** is a cost-effective regulated power supply product, which can convert **220 VAC** into stable **12 V, 24 V and 48 VDC** voltage output, power range of **75W - 960W**. This series offers **9** models.

## Safety

- **Mechanical safety: finger touch protection**
  - The input terminal and load terminal are provided with screw terminals with finger touch protection.
  - The tough and stable metal buckle clamped with the guide rail can withstand a vibration environment of 2 g acceleration.
- **Electrical safety: stronger robustness**
  - Input overvoltage protection function, which can withstand an impact of **380 VAC** input voltage.
  - Constant current mode ( $\leq 240$  W model) / delay locking mode ( $\geq 480$  W model)
  - Integrated overload / overvoltage / short circuit / overtemperature protection function

## Applicability

- Has a wider range of applications
- Wide voltage input, DC voltage input supported.
- Three output voltages optional.
- **5** power ranges, up to **960 W**.
- Applicable to the wide temperature range of **-20 +70°C** ( $>50^{\circ}\text{C}$ , derating required).
- Applicable to the highest altitude of **5,000 m** ( $>2,000$  m, derating required).
- Adjustable output voltage: **-10%-15%**
- **Implemented standards and certifications**
  - UL 508
  - IEC/EN 62368-1

## Application

The product is widely applied in various electronic industrial equipment and related applications and industries:

- New energy
- Semiconductor
- Textile industry
- packaging machinery
- machine tool
- food manufacturing industry

## Usability

- **Clear identification, simple and easy application**
  - The input and output terminals are clearly marked to prevent incorrect wiring.
  - Basic parameters are clearly marked on the product panel.
  - More technical parameters are available through the QR code on the panel.
  - **LED** clearly displays the operating state of the product.



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## ABLS regulated switch mode power supplies

Input voltage	Output voltage	Nominal power (2)	Nominal current	Protection mode for overload or short circuit	Output voltage adjustment potentiometer	Reference	Weight kg lb
100...240 VAC 50/60 Hz 140...340 VDC	12 VDC	75.6 W	6.3 A	Constant current mode, automatic recovery after overload is removed	With	<b>ABLS1A12060E</b>	0.396/ 0.873
		120 W	10 A	Constant current mode, automatic recovery after overload is removed	With	<b>ABLS1A12100E</b>	0.451/ 0.994
	24 VDC	76.8 W	3.2 A	Constant current mode, automatic recovery after overload is removed	With	<b>ABLS1A24030E</b>	0.396/ 0.873
		120 W	5 A	Constant current mode, automatic recovery after overload is removed	With	<b>ABLS1A24050E</b>	0.451/ 0.994
		240 W	10 A	Constant current mode, automatic recovery after overload is removed	With	<b>ABLS1A24100E</b>	0.935/ 2.061
		480 W	20 A	Constant current mode, shutting down after time delay. Re-power on to recover	With	<b>ABLS1A24200E</b>	1.320/ 2.910
	48 VDC	960 W	40 A	Constant current mode, shutting down after time delay. Re-power on to recover	With	<b>ABLS1A24400E</b>	2.200/ 4.85
		480 W	10 A	Constant current mode, shutting down after time delay. Re-power on to recover	With	<b>ABLS1A48100E</b>	1.320/ 2.910
			960 W	20 A	Constant current mode, shutting down after time delay. Re-power on to recover	With	<b>ABLS1A48200E</b>



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