



## Main

Range of product	Phaseo Universal
Product or component type	Converter module
Rated power in W	24 W
Input voltage	24...28.8 V DC
Output voltage	12 V DC
Power supply output current	2 A

## Complementary

Input voltage limits	22...30 V
Efficiency	82 %
Power dissipation in W	4 W
Input protection type	Against reverse polarity
Output voltage limits	7...15 V
Line and load regulation	1...3 %
Residual ripple	<= 100 mV
Output protection type	Against overload, protection technology: automatic reset Against overvoltage, protection technology: tripping if U > 7.8 V, automatic reset Against short-circuits, protection technology: automatic reset
Connections - terminals	For input connection: screw type terminals, connection capacity: 2 x 0.5...2 x 4 mm <sup>2</sup> AWG 24...AWG 10 For output connection: screw type terminals, connection capacity: 2 x 0.5...2 x 4 mm <sup>2</sup> AWG 24...AWG 10
Fixing mode	By clips on 35 mm symmetrical DIN rail, operating position: horizontal By clips on 35 mm symmetrical DIN rail, operating position: vertical
Operating altitude	2000 m
Name of test	Induced electromagnetic field conforming to EN/IEC 61000-4-6 level 3 Radiated electromagnetic field conforming to EN/IEC 61000-4-3 level 3 Rapid transient conforming to IEC 61000-4-4 level 3 Surge conforming to EN/IEC 61000-4-5 level 2 Conducted/Radiated emissions conforming to EN 55022 class B Electrostatic discharges conforming to EN/IEC 61000-4-2 Emission conforming to EN 61000-6-3
Local signalling	1 LED (green) for output voltage (> 6 V)
Net weight	0.3 kg

## Environment

IP degree of protection	IP20 conforming to EN/IEC 60529
Ambient air temperature for operation	-25...60 °C
Ambient air temperature for storage	-40...85 °C
Relative humidity	0...90 % during operation 0...95 % during storage
Overvoltage category	Class 3
Vibration resistance	2 gn (f= 11.9...150 Hz) conforming to EN/IEC 61131-2 3.5 mm (f= 3...11.9 Hz) conforming to EN/IEC 61131-2

Dielectric strength	500 V between input and ground 500 V between input and output 500 V between output and ground
Product certifications	RCM EAC CCSAus UL
Environmental characteristic	EMC conforming to EN 50081-1 EMC conforming to EN 61000-6-3 EMC conforming to EN/IEC 61000-6-2 Safety conforming to EN/IEC 60950-1 Safety conforming to IEC 61204

## Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Weight	601 g
Package 1 Height	6.5 cm
Package 1 width	14.5 cm
Package 1 Length	16.5 cm
Unit Type of Package 2	S04
Number of Units in Package 2	18
Package 2 Weight	12.161 kg
Package 2 Height	30 cm
Package 2 width	40 cm
Package 2 Length	60 cm

## Offer Sustainability

Sustainable offer status	Green Premium product
REACH Regulation	<a href="#">REACH Declaration</a>
REACH free of SVHC	Yes
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) <a href="#">EU RoHS Declaration</a>
Mercury free	Yes
RoHS exemption information	<a href="#">Yes</a>
China RoHS Regulation	<a href="#">China RoHS Declaration</a>
Environmental Disclosure	<a href="#">Product Environmental Profile</a>
Circularity Profile	<a href="#">End Of Life Information</a>
PVC free	Yes

## Contractual warranty

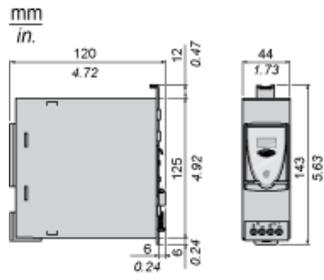
Warranty	18 months
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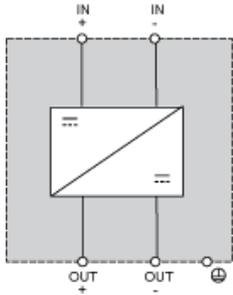
Converter Module

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Dimensions



## Internal Wiring Diagram



## Scheme of Use with ABL4 Power Supplies

