



## Main

|                             |   |
|-----------------------------|---|
| Range of product            | Phaseo Universal  |
| Product or component type   | Power supply  |
| Power supply type           | Regulated switch mode   |
| Rated power in W            | 240 W   |
| Input voltage               | 100...120 V AC single phase N-L1<br>200...500 V AC phase to phase L1-L2   |
| PFC filter                  | With IEC 61000-3-2  |
| Output voltage              | 24 V DC   |
| Power supply output current | 10 A  |
| Output protection type      | Against overload manual or automatic reset<br>Against overvoltage 30...32 V, manual reset<br>Against short-circuits manual or automatic reset<br>Against undervoltage tripping if $U < 21.6$ V<br>Thermal automatic reset |

## Complementary

|                                     |   |
|-------------------------------------|---|
| Input voltage limits                | 85...132 V<br>170...550 V   |
| Network frequency limits            | 47...63 Hz  |
| Inrush current                      | $\leq 30$ A 2 ms  |
| Cos phi                             | 0,68 240 V<br>0,69 120 V  |
| Efficiency                          | $> 87$ %  |
| Power dissipation in W              | 31 W  |
| Output voltage limits               | 24...28.8 V adjustable  |
| Line and load regulation            | 1...3 %   |
| Residual ripple                     | $\leq 200$ mV   |
| Holding time                        | $\geq 120$ ms 400 V<br>$\geq 20$ ms 100 V<br>$\geq 40$ ms 240 V   |
| Permissible temporary current boost | 1.5 x $I_n$ for 4 s   |
| Connections - terminals             | Removable screw terminal block diagnostic relay 2 x 2.5 mm <sup>2</sup><br>Screw type terminals input connection 3 x 0.5...3 x 4 mm <sup>2</sup> 22...12<br>Screw type terminals input ground connection 1 x 0.5...1 x 4 mm <sup>2</sup> 22...12<br>Screw type terminals output connection 4 x 0.5...4 x 4 mm <sup>2</sup> 22...12<br>Screw type terminals output ground connection 1 x 0.5...1 x 4 mm <sup>2</sup> 22...12                               |
| Marking                             | CE  |
| Mounting support                    | 35 x 15 mm symmetrical DIN rail<br>35 x 7.5 mm symmetrical DIN rail   |
| Operating position                  | Vertical  |
| Output coupling                     | Parallel<br>Series  |
| Name of test                        | Conducted emissions on the power line EN 55022 Class B GL level<br>Electrostatic discharges EN/IEC 61000-4-2<br>Harmonic current emission EN/IEC61000-3-2<br>Induced electromagnetic field EN/IEC 61000-4-6 level 3<br>Magnetic field EN 61000-4-8<br>Primary outage IEC 61000-4-11<br>Radiated electromagnetic field EN/IEC 61000-4-3 level 3<br>Radiated emissions EN 55022 Class B GL level<br>Rapid transient IEC 61000-4-4<br>Surge EN/IEC 61000-4-5 |

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|                |  |
|----------------|--|
| Status LED     | 1 LED green, red and orange output current<br>1 LED green and red output voltage |
| Product weight | 1 kg   |

## Environment

|  |   |
|--|---|
| Product certifications                     | C-Tick<br>UL<br>CCSAus  |
| Environmental characteristic               | EMC EN 61000-6-1<br>EMC EN/IEC 61000-6-2<br>EMC EN 61000-6-3<br>EMC EN/IEC 61000-6-4<br>EMC EN/IEC 61204-3<br>Safety EN/IEC 60950-1<br>Safety EN/IEC 61204-3<br>Safety SELV |
| IP degree of protection                    | IP20 EN/IEC 60529   |
| Ambient air temperature for operation      | -25...60 °C   |
| Ambient air temperature for storage        | -40...70 °C   |
| Relative humidity                          | 0...90 % during operation<br>0...95 % in storage  |
| Class of protection against electric shock | Class I VDE 0106-1  |
| Vibration resistance                       | 2 gn 11,9...150 Hz EN/IEC 61131-2<br>3.5 mm 3...11,9 Hz EN/IEC 61131-2  |
| Dielectric strength                        | 500 V between output and ground<br>3500 V between input and ground<br>4000 V between input and output   |
| RoHS EUR status                            | Compliant   |
| RoHS EUR conformity date                   | 0501  |