

## Single-phase, primary switched mode power supply **PC-0112-150-0**



Picture shows PC-0124-200-0

### Advantages

|                                                |
|------------------------------------------------|
| Stabilized and adjustable output voltage       |
| Fast tripping of conventional circuit breakers |
| DC OK indicator                                |
| Parallel operation                             |
| Push-in terminals                              |
| Robust DIN rail mounting                       |
| Resistant to transient overvoltages up to 4 kV |
| 3 years warranty                               |

### Applications

Power Compact combines the basic functionality of an economic switched mode power supply with key additional features to ensure high system availability. A powerful and flexible option that's still light and compact. Our real all-rounders, these power supply units are suitable for a highly diverse range of applications in solar, measurement and control technology and they really come into their own in industrial and building automation. The devices cover the average power requirement from 120 W to 480 W. Versions with 12 V, 24 V, and 48 V are available, which allow a range of applications. A version with 5 A rated current is available for a single or two-phase supply from 180 V to 550 V. The output voltage can be set easily using the rotary potentiometer on the front of the housing. The robust DIN rail fastening method and push-in connection terminals enable fast and secure mounting.

For applications in the medical field, power supplies are available with approval according to UL 60601-1.

### Standards

Primary switched mode power supply  
to UL 60950, UL 508

Safety:  
EN 61558-2-16, EN 60950-1

EMC:  
EN 61204-3

### Approvals



UL/CSA 60950 recognised, UL508 listed, Germanischer Lloyd



# Single-phase, primary switched mode power supply

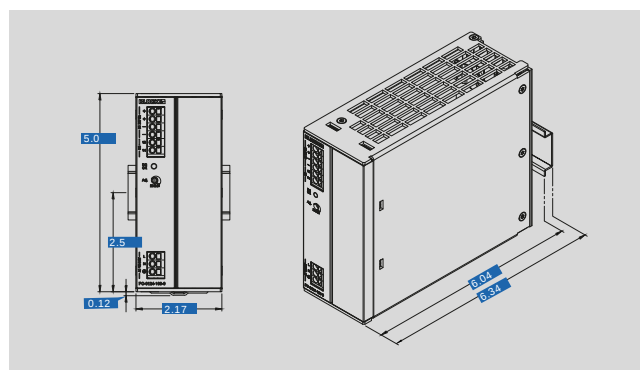
## PC-0112-150-0

### Electrical data

| Type                                                       | PC-0112-150-0                                                         |
|------------------------------------------------------------|-----------------------------------------------------------------------|
| Special features                                           |                                                                       |
| Characteristics                                            | Active inrush current limit                                           |
| Input                                                      |                                                                       |
| Input rated voltage                                        | 100 - 240 Vac                                                         |
| Input voltage range                                        | 85 - 264 Vac<br>(120 - 372 Vdc)                                       |
| Input voltage derating                                     | -2.5 %/Vac < 100 Vac                                                  |
| Rated frequency range                                      | 44 Hz - 66 Hz / 0 Hz                                                  |
| Input rated current (rated load)                           | 2.07 A (100 Vac) / 0.95 A (230 Vac)                                   |
| Starting current limiter                                   | < 30 A, NTC (active)                                                  |
| Switch-on time                                             | 0.71 s (100 Vac) / 0.43 s (230 Vac)                                   |
| Mains buffering (rated load)                               | 28 ms (100 Vac) / 28 ms (230 Vac)                                     |
| Power factor                                               | 0.91 (active PFC)                                                     |
| Input fuse internal                                        | 6.3 A                                                                 |
| Recommended back-up fuse (circuit breaker)                 | 10 A, 16 A,<br>characteristic B, C                                    |
| Transient surge voltage protection                         | Varistor                                                              |
| Output                                                     |                                                                       |
| Output rated voltage                                       | 12 Vdc                                                                |
| Output voltage range                                       | 11.5 - 15 Vdc                                                         |
| Output rated current                                       | 15 A                                                                  |
| Output limited current                                     | typ. 16.5 A (constant current)                                        |
| Tripping of LS circuit breakers                            | max. B4                                                               |
| Parallel connection                                        | Yes                                                                   |
| Serial operation                                           | Yes                                                                   |
| Power dissipation, no load/rated load                      | 4.4 W / 21.8 W (230 Vac)                                              |
| Max. power losses                                          | 24.7 W (100 Vac / 12 V / 15 A)                                        |
| Efficiency                                                 | typ. 90 %                                                             |
| Ripple factor                                              | typ. 35 mVss                                                          |
| Resistance to reverse feed max.                            | 35 Vdc                                                                |
| Over-voltage-protection                                    | max. 20 Vdc                                                           |
| Signaling                                                  |                                                                       |
| Typ. switching threshold for LED and signal output (DC OK) | -                                                                     |
| Status indicator                                           | LED green                                                             |
| Signal output                                              | Relay contact                                                         |
| Approvals                                                  |                                                                       |
| Approvals                                                  | cURus, cULus, GL                                                      |
| Environment                                                |                                                                       |
| Type of cooling                                            | natural convection                                                    |
| Ambient temperature                                        | -13 °F to +158 °F                                                     |
| Storage temperature                                        | -13 °F to +185 °F                                                     |
| Derating                                                   | -5 %/K > +140 °F @ 196 - 264 Vac<br>-2.5 %/K > +122 °F @ 85 - 195 Vac |
| Required minimum spacing (left/right)                      | 0.00 inch                                                             |
| Required minimum spacing (over/under)                      | 1.97 inch                                                             |
| Safety and protection                                      |                                                                       |
| Protection index                                           | IP 20                                                                 |
| Safety class                                               | I, with PE connection                                                 |
| Order numbers                                              |                                                                       |
| Order Number                                               | PC-0112-150-0                                                         |

### Mechanical data

| Type                                                     | PC-0112-150-0                         |
|----------------------------------------------------------|---------------------------------------|
| Environment                                              |                                       |
| Mounting position                                        | horizontal for standard rail DIN TS35 |
| Terminal and mounting                                    |                                       |
| Terminals signalling (direct plug-in technology Push-in) | max 2,5 mm²                           |
| Terminals input (direct plug-in technology Push-in)      | max 2,5 mm²                           |
| Terminals output (direct plug-in technology Push-in)     | max 2,5 mm²                           |
| Measures and weights                                     |                                       |
| Weight                                                   | 2.05 lbs                              |
| Dimensions in inch                                       |                                       |



Subject to change.