

## Engineering Conditions of Acceptability

For use only in or with complete equipment where the acceptability of the combination is determined by UL LLC. When installed in an end-product, consideration must be given to the following:

- The following Production-Line tests are conducted for this product: Electric Strength, Earthing Continuity
- The end-product Electric Strength Test is to be based upon a maximum working voltage of: PC-0112-150-0; Primary-Earthed Dead Metal: 242 Vrms, 416 Vpk, Primary-SELV: 255 Vrms, 436 Vpk, , PC-0124-050-0; Primary-Earthed Dead Metal: 297 Vrms, 720 Vpk, Primary-SELV: 322 Vrms, 816 Vpk, , PC-0124-100-0, Primary-Earthed Dead Metal: 245 Vrms, 448 Vpk, Primary-SELV: 258 Vrms, 476 Vpk, , PC-0124-200-0, Primary-Earthed Dead Metal: 243 Vrms, 464 Vpk, Primary-SELV: 266 Vrms, 496 Vpk, , PC-0148-050-0, Primary-Earthed Dead Metal: 241 Vrms, 464 Vpk, Primary-SELV: 275 Vrms, 520 Vpk, , PC-0148-100-0, Primary-Earthed Dead Metal: 243 Vrms, 464 Vpk, Primary-SELV: 249 Vrms, 512 Vpk, , PC-1024-050-0, Primary-Earthed Dead Metal: 295 Vrms, 760 Vpk, Primary-SELV: 317 Vrms, 816 Vpk
- The following secondary output circuits are SELV: All
- The power supply terminals and/or connectors are: Suitable for field wiring
- The maximum investigated branch circuit rating is: 20 A
- The investigated Pollution Degree is: 2
- Proper bonding to the end-product main protective earthing termination is: Required
- An investigation of the protective bonding terminals has: Been conducted
- The following input terminals/connectors must be connected to the end-product supply neutral: Middle terminal marked "N".
- The following magnetic devices (e.g. transformers or inductor) are provided with an OBJY2 insulation system with the indicated rating greater than Class A (105°C): All Inductors and Transformers Class F.
- The following end-product enclosures are required: Fire, Electrical, , Unit is Intended for building-in. Enclosure and Bezel were not evaluated as neither a fire nor an electrical enclosure.
- Model PC-1024-050-0 contains a battery charging circuit and is intended to charge Listed Lead Acid Batteries rated 24Vdc, 12Ah. The batteries were not provided for this investigation. Single fault testing was conducted on the battery charging circuit with representative Lead Acid Batteries and the maximum current was recorded. For charging, 0.61A was measured and for discharging 0.6A was measured. See Table 4.3.8 for details. Also, the Heating Test was conducted with the unit charging a discharged Lead Acid Battery, see Table 4.5 for details.
- Model PC-1024-050-0 contains a charging circuit and is intended to be connected to Listed Lead Acid batteries, Rated 24Vdc, 12Ah. Reverse polarity is possible and prevention is to be evaluated in the end product
- Consideration of investigation of Model PC-1024-050 with use of a battery pack in the end product shall be made.
- All dc outputs are an energy hazard except for the following models: PC-0124-050-0 and PC-1024-050-0.
- Because all models in this report are intended for building into either a permanently connected or a pluggable type B end product, the Capacitance Discharge Test was conducted at 10s. Only the Model PC-1024-050-0 complies with the Capacitance Discharge Test at 1 s and at 10s. Consideration to repeat capacitance discharge shall be made in end product.
- All the power supplies in this report are intended for building in; the metal enclosure of the power supplies must have unintentional contact when installed in the end product. (See hot marking symbol on enclosure metal chassis).