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Application Note Number ..28.....

Product : MVP Series

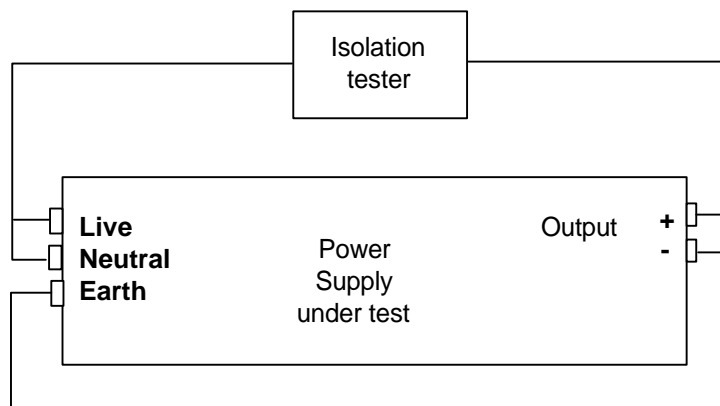
Application Overview: Safety isolation voltage requirements and test voltages

Originator: G. Fry

Location: Merry Hill

Date: 17 / 3/ 98

Schematic



Description

The MVP Power supply has passed the Safety Approval type test (EN60950 reinforced isolation and SELV outputs) with the following voltages:

input to output 4243V dc (Y capacitors removed)
input to chassis 2636V dc (Y capacitors removed)

transformers tested
primary to secondary 3000V ac

Production Test

When assembled in production each unit is tested to the following voltage:

Input (Live and Neutral shorted together)
to Output/ Chassis (Output terminals shorted to chassis) - 2121V DC
for 3 seconds, max. trip current 0.5mA

The following are checked with a meter. There are surface mount capacitors between output common and chassis earth so no high voltages should be applied between the output terminals and chassis earth

Output to Output - check for isolation with ohm meter > 1M Ω
Output to Chassis - check for isolation with ohm meter > 1M Ω