



Astec Standard Power Europe
Astec House, Waterfront Business
Park, Merry Hill, Dudley
DY5 1LX, UK
Tel: 01384 842211
Fax: 01384 843355

Astec Germany GmbH
Robert-Heil-Str. 8
36251 Bad Hersfeld
Tel: 06621-5057-0
Fax: 06621-5057-20

Astec France
Les Arcades
424, la Closerie Mont d'Est
93194 Noisy Le Grand
Tel: (1) 43 05 86 80
Fax: (1) 43 04 60 33

Application Note Number 138.

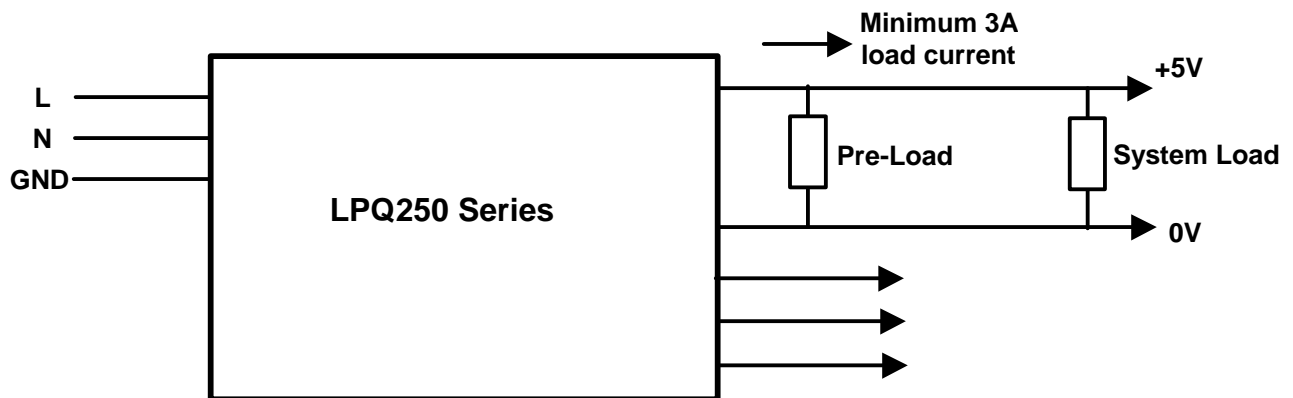
Product : LPQ250 Series
Application Overview : Minimum load requirements

Originator: Paul Haycock

Location: Merry Hill

Date: 18-07-00

Schematic



Description

For correct operation of the LPQ250 range of power supplies it is important to ensure the correct level of minimum load is used, as specified in our data sheet. Both the LPQ252 and LPQ253 require at least 3A load on the 5V output at all times, although the other outputs will operate down to zero load without any problems.

Furthermore, if there is insufficient loading of the 5V output the PSU may not start up correctly, resulting in an immediate shut down of the PSU regardless of the level of loading on the remaining outputs.

In order to maintain efficiency, the minimum load requirement for the 5V output is not incorporated within the power supply as the system load may continually sink sufficient current to meet this demand. However, additional resistors may be added to the 5V output if the system load is expected to fall below the 3A minimum limit.