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On structure of group of units of a group algebra

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Let FG be the group algebra of a group G over a field F of characteristic p , and let $U(FG)$ denote the group of units of FG . Let G and H finite p -groups. The following question is due to Berman: Is it true that $U(FG)$ and $U(FH)$ are isomorphic if and only if G and H are isomorphic? We give some results about the structure of the group of units $U(FG)$ which is needed to investigate the isomorphism problem of the group of units. In the context of derived length of $U(FG)$ we focus attention on that there is a closer relation between the Lie derived lengths of the algebra FG and the derived length of the group of units.