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A non-connective delooping for the algebraic K-theory of additive categories has been constructed by Pedersen and Weibel, using the notion of bounded categories, and generalizing Bass' definition of negative K-theory of rings. This has been extended to exact categories by Schlichting using different techniques. Our goal is to apply to arbitrary exact categories the ideas of Pedersen-Weibel, which were proved to be very useful in applications to topology. (Received September 18, 2007)