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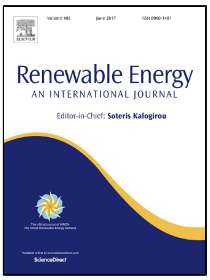

Design and experimental investigation of digital model predictive current controller for single phase grid integrated photovoltaic systems

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PII:	S0960-1481(17)30143-X
DOI:	10.1016/j.renene.2017.02.057
Reference:	RENE 8564
To appear in:	*Renewable Energy*
Received Date:	23 July 2016
Revised Date:	10 December 2016
Accepted Date:	19 February 2017

Please cite this article as: Aditi Chatterjee, Kanungobarada Mohanty, Vinay Sagar Kommukuri, Kishor Thakre, Design and experimental investigation of digital model predictive current controller for single phase grid integrated photovoltaic systems, *Renewable Energy* (2017), doi: 10.1016/j.renene.2017.02.057

Highlights

- A dual stage single phase grid integrated photovoltaic inverter system is modelled and simulated with input side maximum power point tracking controller and grid side controller.
- A digital model predictive current controller with delay compensation technique for single phase grid tied voltage source inverter is proposed.
- Proposed control algorithm is implemented on hardware platform using low cost digital signal processor.