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INDUCTION MOTOR DRIVE USING BOOST CONVERTER AND INVERTER FED FROM PHOTOVOLTAIC PANEL

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ABSTRACT

This paper presents a topology of induction motor which drives system desegregation, a lift convertor and a IGBT inverter victimization solar photovoltaic panel. The motor is driven with the offered power at the instant. To match resistivity between the solar array and motor load and to improve the panel voltage, a lift dc-dc convertor topology is used, maximum power point pursuit rule is enforced to extract most power from the PV panel. A three level inverter is employed to drive the induction motor. We tend to use IGBT clamped inverter. The proposed system is simulated in matlab and results are mentioned.

KEYWORDS: Incremental Conductance, MPPT Maximum Power Point Tracking, PV Panel