

ANALYSIS AND DESIGN OF LOW RPM PERMANENT MAGNET TYPE 3 PHASE AXIAL FLUX GENERATOR

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Abstract

Electricity has become a basic human need. Electricity has entered into various fields of daily life. Ranging from simple things to complicated things like cooking, washing, shaving hair, electric rotary axis, the flux is the result of an attractive force between two permanent magnets that have different poles. The voltage produced by the flux generator is 3 phase AC voltage and rectified into DC voltage. This DC voltage is used to supply DC power loads. The results of the study, the generator voltage is 12.50 V, the maximum current is 0.11 A, and the power generated is 5.28 VA.vehicles, to the medical field. Unimaginable amount of electrical energy needs to meet those needs.3-phase electricity system is an alternating current electricity system (AC = Direct Current) produced by 3-phase electric generators with a standard frequency produced 50 Hz. In general, a 3 phase system uses a 3 equal voltage balanced system. Axial flux permanent magnet generator is a permanent magnet generator which has a direction of the flux field parallel to the

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