## RANCANG BANGUN SISTEM AUTOMATIC TRANSFER SWITCH (ATS) DAN AUTOMATIC MAINS FAILURE (AMF) PLN DAN GENSET BERBASIS MODUL DEEP SEA ELECTRONICS 4520 MKII

Mohammad Suhar to', Su jono'

"Program Studi Teknik Elektro, Universitto Buli Lubur, Jokarta, Indonesia

\* suboro besego westlignoil com, \*sectonitumal com

#### ABSTRAK

Paula sugus akhir ini dilakukan mucang hangun nistem Automatic Transfer Switch (ATS) dan Automatic Mains Failure (AMF) PLN dan genemater set herbasis modul Deep Sea Electronics 4520 MKB. Modul Deep Sea Electronics 4520 MKB adalah pemilatan elektromekanik yang dapat dikendalian dan dijangsilan untuk menindahkan posisi samber senaga liatrik dari jaringan usuma(PLN) ke samber senaga liatrik calangan (genset) ketika pasokan listrik dari jaringan usuma serpatus. Sistem serdiri magkalan daya, rangkalan kontrol modul DSE 4520 MKB, pilot kang, relai, kontakur, selector switch, emergency susp dan Current Transformer (CT). Dari hasil pegujian diperoleh adanga selisih hasil pembacaan tegangan frekuensi, ana dan cos phi antara mulai DSE 4520 MKB dibandingkan dengan multimeter dan clamp meter. Selisih tegangan selecur 0.88Vac, frekuensi 0.016Hz, aras 0.00K dances phi 0.05. Non essential koad tidak aktif saat genset menyaplai beban. ATS dan AMF akan mencata se gangan dari bus sistem ke beban ketika tegangan bersata pada keadaan normal yaitu 220 wit, dan mencata yaing dibatahkan penset untuk mensuplai beban setelah saatika freduseni genset pada keadaan mermal yaitu 50 Hz. Proses down itme vang dibatahkan penset untuk mensuplai beban setelah saatika saatika saatika 1 delik 1 delik.

Kota kanci : ATS, AMF, DSE 4520 MKH, Gennet, Down time.

#### ABSTRACT

In this final project, the design of Automatic Transfer Switch (ATS) and Automatic Mains Fallure (AMF) PLN and the generator set based on the Deep Sea Electronics 4520 MKH module. The Deep Sea Electronics 4520 MKH module is electronical option of power source, from the main network (PLN) to the backup power source (generator) when the power supply from the main network is lost. System consists of power circuit, DSE 4520 module control circuit, PLN interlock circuit and generator set, non-essential load control circuit, DSE 4520 MKH module, pilot lamp, relay, contactor, selector switch emergency stop and Corrent Transformer (CT). From the test results obtained the difference in the results of voltage readings, frequency, current and cos phi between DSE module 4520 MKH compared with multimater and clamp mater. Difference of voltage equal to 0,88Vac, frequency 0,016Hz, current 0,08A and cosphi 0.06. Non-exertial load is inactive when the generator supplies the load. ATS and AMF will supply the voltage from the system has to the load when the voltage is in the normal state of 220 wits, and feed the frequency from the system has to the load when the frequency of the generator in the normal state is 50 Hz, Down time process required generat to supply the load after the starting is 11 seconds.

Keywords: ATS AMF, DSE 4520 MKB, Gennet, Drewn down.

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