

# Perancangan dan implementasi series resonant converter 3 fase dengan voltage doubler rectifier = Design and implementaion of series resonant converter 3 phase with voltage doubler rectifier / Mirzan Ghulami

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## Abstrak

<b>ABSTRAK</b><br>

Telah dibuat SRC 3 fase dengan penyearah voltage doubler. SRC tersebut memiliki spesifikasi tegangan masukan 520VDC, tegangan keluaran 600VDC dan daya maksimum 2kW. SRC tersebut dikendalikan dengan algoritma kontrol soft start dan kontrol PI menggunakan mikrokontroler TMS320F28027. Pada pengujian secara open loop memiliki rentang error sebesar 2 hingga 2.2 . Pada pengujian secara close loop memiliki rentang error sebesar 7 hingga 9 .

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<b>ABSTRACT</b><br>

Three phase series resonant converter with voltage doublers rectifier had been made. It had the spesification such as 520VDC input voltage, 600VDC output voltage and 2kW maximum power. The SRC controlled by microcontroller TMS320F28027 with soft start algorithm and PI controller. In opened loop testing, it has 2 until 2.2 of error. In the other hand, it has 7 until 9 of error when it tested in closed loop condition.