

## PENGEMBANGAN FIVE-LEVEL CURRENT-SOURCE INVERTER YANG DILENGKAPI DENGAN BOOST-UP CHOPPER

<b>Title</b>	PENGEMBANGAN FIVE-LEVEL CURRENT-SOURCE INVERTER YANG DILENGKAPI DENGAN BOOST-UP CHOPPER
<b>Author Order</b>	of
<b>Accreditation</b>	
<b>Abstract</b>	<p>This paper presents a circuit of the five-level current source inverter equipped with boost-up chopper fo DC-AC power converter. The inverter circuits work generating an AC five-level PWM output current, while the boost-up chopper work to step-up the DC input voltage. In order to obtain a smaller harmonic distortion of the output current, pulse width modulation (PWM) technique is employed which only use two triangular carrier waveform. The boos-up chopper circuits is controlled using proportional-integral controller (PI) to keep a stable DC voltage at the DC capacitor. The circuits is tested using computer simulation with PSIM software. The test results show that the inverter circuits equipped with boos-up chopper works well producing an AC five-level PWM current with small distortion</p> <p>Key words: photovoltaic, inverter, power grid, harmonics</p>
<b>Publisher Name</b>	PROSIDING SENATEK FAKULTAS TEKNIK UMP
<b>Publish Date</b>	2015-11-28
<b>Publish Year</b>	2015
<b>Doi</b>	
<b>Citation</b>	
<b>Source</b>	PROSIDING SENATEK FAKULTAS TEKNIK UMP
<b>Source Issue</b>	2015: PROSIDING SENATEK TAHUN 2015, 28 November 2015
<b>Source Page</b>	
<b>Url</b>	<a href="http://senatekprosiding.ump.ac.id/index.php/snt/article/view/26">http://senatekprosiding.ump.ac.id/index.php/snt/article/view/26</a>
<b>Author</b>	DARU TRI NUGROHO, S.T, M.T