

```
<div style="text-align: center;"><a href="#"><span style="color: black; font-family: arial;">[KEMBALI KE MENU SEBELUMNYA]</span></a></div>
```

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<span style="font-family: arial;"><br />
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</span><center>
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<div style="background-color: white; border: 2px dashed rgb(23, 128, 221); height: 240px; overflow: auto; padding: 10px; text-align: center; width: 330px;">
```

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<h2 style="text-align: center;"><span style="font-family: georgia;"><b>DAFTAR ISI</b></span></h2><h3 style="text-align: left;"><div style="text-align: justify;"><a href="#Tujuan"><span style="color: black; font-family: georgia;">1.Tujuan</span></a></div><span style="font-family: georgia;"><div style="text-align: justify;"><a href="#Alat dan Bahan"><span><span>2. Alat dan Bahan</span></span></a></div><div style="text-align: justify;"><a href="#Dasar"><span>3. Dasar Teori</span></a></div><span><div style="text-align: justify;"><a href="#Example"><span><span>4. Example</span></span></a></div></span></span><div style="text-align: justify;"><a href="#Problem"><span><span style="color: black; font-family: georgia;">5. Problem</span></span></a></div><span style="font-family: georgia;"><div style="text-align: justify;"><a href="#Pilihan Ganda"><span style="color: black;">6. Pilihan Ganda</span></a><span>&nbsp;</span></span></div><div style="text-align: justify;"><span><a href="#Prinsip Kerja"><span style="color: black;">7. Prinsip Kerja</span></a><span>&nbsp;</span></span></div><div style="text-align: justify;"><span><span><a href="#Percobaan"><span style="color: black;">8. Percobaan</span></a><span>&nbsp;</span></span></span></div><div style="text-align: justify;"><span><span><span><a href="#Download"><span style="color: black;">9. File Download</span></a><span>&nbsp;</span></span></span></span></div></span></h3>
```

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<div style="text-align: left;">
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<div style="text-align: justify;"><span style="font-family: arial;"><br /></span></div>
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</div>
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</div>
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</center>
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[illegible]

height="200"

src="https://1.bp.blogspot.com/-dzXfov0LagE/YCY_5dX4-WI/AAAAAAAAA0k/rior5jqdeFwM2ig7cT_JBiuzQerpRCgrAClCBGAsYHQ/w200-h200/index.jpg" style="background-attachment: initial; background-clip: initial; background-image: initial; background-origin: initial; background-position: initial; background-repeat: initial; background-size: initial; border: 1px solid rgb(238, 238, 238); box-shadow: rgba(0, 0, 0, 0.1) 1px 1px 5px; box-sizing: border-box; max-width: 100%; padding: 5px; position: relative;" width="200" /></div><div style="background-color: white; text-align: justify;">
</div><div style="background-color: white; text-align: justify;">Spesifikasi:</div><div style="background-color: white; text-align: justify;"><div class="separator" style="clear: both; text-align: center;"></div>
</div><div style="background-color: white; text-align: justify;">2.</div><div style="background-color: white; text-align: justify;">Generator DC</div><div style="background-color: white; text-align: justify;">Fungsi : Untuk mengubah energi mekanik menjadi energi listrik DC</div><div style="background-color: white; text-align: justify;">
</div><div style="background-color: white; text-align: justify;"></div><div style="background-color: white; text-align: justify;">
</div><div style="background-color: white; text-align: justify;"><div style="font-size: medium; text-align: left;">Spesifikasi:</div><div style="font-size: medium; text-align: left;">
</div><div style="font-size: medium;

cellpadding="1" style="border-collapse: collapse; border-spacing: 0px; font-family: Roboto, sans-serif; font-size: 14.6667px; text-align: justify; width: 1200px;">			
		Rating Application Table	
		Model	
		Standby Rating	
		Prime Rating	
		Continuous Rating	
		Data Sheets	
		60 Hz	
		kW (kVA)	
		50 Hz	
		kW (kVA)	
		60 Hz	
		kW (kVA)	
		50 Hz	
		kW (kVA)	
		60 Hz	
		kW (kVA)	

[illegible]

border-box; padding: 0px; text-align: center;">Not
Rated</td><td style="box-sizing: border-box; padding: 0px; text-align: center;"><span
style="font-size: x-small;">Not Rated</td><td style="box-sizing: border-box; padding: 0px;
text-align: center;">Not Rated</td><td style="box-sizing:
border-box; padding: 0px; text-align: center;">Not
Rated</td><td style="box-sizing: border-box; padding: 0px; text-align: center;"><span
style="font-size: x-small;">D-3235</td><td style="box-sizing: border-box; padding: 0px;
text-align: center;">D-3236<br
</td></tr></tbody></table></div></div><div
style="background-color: white; text-align: justify;"><span
lang="id" style="font-family: arial;">
</div><div
style="background-color: white; text-align: justify;"><span
lang="id" style="font-family: arial;">B. BAHAN </div><div
style="background-color: white; text-align: justify;"><span
lang="id" style="font-family: arial;">
</div><div
style="background-color: white; text-align: justify;"><span
lang="id" style="font-family: arial;">1. Battery</div><div
style="background-color: white; text-align: justify;"><span
lang="id" style="font-family: arial;"> </div><div style="background-color:
white; text-align: justify;"><span lang="id" style="font-family:
arial;">Fungsi : Sebagai sumber arus listrik dengan menyimpan energi potensial
listrik </div><div style="background-color: white; text-align:
justify;"><br
</div><div style="background-color: white; text-align: justify;"><span
style="font-size: medium;">Spesifikasi : BAT1
12V</div><div style="background-color: white; text-align: justify;"><span
style="font-size: medium;"><br
</div><div style="background-color: white; text-align: justify;"><span
style="font-size: medium;"><div class="separator"
style="clear: both; text-align: justify;"><a
href="https://1.bp.blogspot.com/-378wRPKiwAI/YCY_I7ZvkBI/AAAAAAAAA0I/eLgITP-sM70IU1Z-Bsj6x5Es
mxRBAgX0ACLcBGAsYHQ/s228/index.png" style="margin-left: 1em; margin-right: 1em;
text-decoration-line: none;"></div><div style="background-color: white; text-align:
justify;"><br
</div>2. OP-AMP</div><div
style="background-color: white; text-align: justify;"><span
lang="id" style="font-family: arial;">
</div><div style="background-color:

white; text-align: justify;">Fungsi : Sebagai penguat sinyal listrik</div><div style="background-color: white; text-align: justify;"> </div><div style="background-color: white; text-align: justify;"><div class="separator" style="clear: both; text-align: justify;"></div><div style="background-color: white; text-align: justify;"><div style="font-family: times; font-size: medium; font-weight: 400;">
</div><div style="font-family: times; font-size: medium; font-weight: 400;">Konfigurasi pin :</div><div style="font-family: times; font-size: medium; font-weight: 400;"><ul style="font-family: Roboto, Arial, sans-serif; font-size: 16px; line-height: 1.4; margin: 1.25rem 0px; padding: 0px 2.5em 0px 3rem;"><li style="margin: 0px 0px 0.25em; padding: 0px;">Pin1 (Offset Null 1): Pin ini digunakan untuk menghilangkan tegangan offset & keseimbangan tegangan input daya.<li style="margin: 0px 0px 0.25em; padding: 0px;">Pin2 (Inverting input daya): Pembalikan sinyal input<li style="margin: 0px 0px 0.25em; padding: 0px;">Pin3 (Non-Inverting input daya): Input sinyal non-pembalik<li style="margin: 0px 0px 0.25em; padding: 0px;">Pin4 (VEE): GND (-Ve Supply input daya)<li style="margin: 0px 0px 0.25em; padding: 0px;">Pin5 (Offset Null 2): Pin ini digunakan untuk menghilangkan tegangan offset & keseimbangan tegangan input daya.<li style="margin: 0px 0px 0.25em; padding: 0px;">Pin6 (Output): output daya dari Op-amp<li style="margin: 0px 0px 0.25em; padding: 0px;">Pin7 (VCC): + Input Supply<li style="margin: 0px 0px 0.25em; padding: 0px;">Pin8 (NC): Tidak ditautkan</div><div style="font-family: times; font-size: medium; font-weight: 400;">Spesifikasi:</div><div style="font-family: times; font-size: medium; font-weight: 400;"><ul style="font-family: Roboto, Arial, sans-serif; font-size: 16px; line-height: 1.4; margin: 1.25rem 0px; padding: 0px 2.5em 0px 3rem;"><li style="margin: 0px 0px 0.25em; padding: 0px;">Supply tegangan $\pm 18V$ <li style="margin: 0px 0px 0.25em; padding: 0px;">Diferensial tegangan input daya: $\pm 30V$ <li style="margin: 0px 0px 0.25em; padding: 0px;">Kisaran supply input daya adalah $\pm 15V$ <li style="margin: 0px 0px 0.25em; padding: 0px;">Timbal suhu $260^{\circ}C$ <li style="margin: 0px 0px 0.25em; padding: 0px;">Suhu persimpangan adalah $115^{\circ}C$ <li style="margin: 0px 0px 0.25em; padding: 0px;">Tegangan Offset input daya adalah $5mV$ <li style="margin: 0px 0px 0.25em; padding: 0px;">Pemborosan daya adalah $670mW$ </div></div><div style="background-color: white; text-align: justify;">
</div>3. Resistor</div><div

</div><div style="background-color: white; text-align: justify;">Fungsi : Sebagai penghambat arus listrik</div><div style="background-color: white; text-align: justify;">
</div><div style="background-color: white; text-align: justify;">Spesifikasi :</div><div style="background-color: white; text-align: justify;"> </div><div style="background-color: white; text-align: justify;"><div class="separator" style="clear: both; text-align: justify;"></div><div class="separator" style="clear: both; text-align: justify;"><table border="0" cellpadding="0" cellspacing="0" class="MsoNormalTable" style="background-attachment: initial; background-clip: initial; background-image: initial; background-origin: initial; background-position: initial; background-repeat: initial; background-size: initial; border-collapse: collapse; text-align: justify; width: 504px;"><tbody><tr><td style="background: palegoldenrod; border: none; padding: 3.75pt; width: 221.1pt;" valign="top" width="295"><p class="MsoNormal" style="line-height: normal; margin-bottom: 15pt;">Specifications<o:p></o:p></p></td><td style="background: palegoldenrod; border: none; padding: 3.75pt; width: 156.9pt;" valign="top" width="209"><p class="MsoNormal" style="line-height: normal; margin-bottom: 15pt;"> <o:p></o:p></p></td></tr><tr><td style="border: none; padding: 3.75pt; width: 221.1pt;" valign="top" width="295"><p class="MsoNormal" style="line-height: normal; margin-bottom: 15pt;">Resistance (Ohms)<o:p></o:p></p></td><td style="border: none; padding: 3.75pt; width: 156.9pt;" valign="top" width="209"><p class="MsoNormal" style="line-height: normal; margin-bottom: 15pt;">1K<o:p></o:p></p></td></tr><tr><td style="background: rgb(249, 249, 249); border: none; padding: 3.75pt; width: 221.1pt;" valign="top" width="295"><p class="MsoNormal" style="line-height: normal; margin-bottom: 15pt;">Power (Watts)<o:p></o:p></p></td><td style="background: rgb(249, 249, 249); border: none; padding: 3.75pt; width: 156.9pt;" valign="top" width="209"><p class="MsoNormal" style="line-height: normal; margin-bottom: 15pt;"><span

Tolerance	$\pm 5\%$
Packaging	Bulk
Composition	Carbon Film
Temperature Coefficient	$>350 \text{ ppm}/^{\circ}\text{C}$
Lead Free Status	Lead Free
RoHS	RoHS Compliant

4. Ground

Fungsi : Sebagai penghantar arus listrik ke tanah

arial;">
</div><div style="background-color: white; text-align: justify;"><div class="separator" style="clear: both; text-align: justify;"></div></div></div><div style="text-align: justify;">
</div>

<div style="text-align: justify;"> 3. Dasar Teori[kembali]</div><div style="text-align: justify;">
</div><div style="text-align: left;"><p style="background-color: white; text-align: justify;"><b style="text-align: left;">15.4 Sumber Terkendali</p><p style="background-color: white; text-align: justify; text-indent: 0.25in;">Operasioal amplifier (op-amp) dapat digunakan dalam bentuk berbagai tipe dari sumber terkendali. Sebuah tegangan dapat digunakan untuk mengontrol sebuah tegangan atau arus output, atau sebuah arus input dapat digunakan untuk mengontrol sebuah arus atau tegangan output. Tipe-tipe dari koneksi ini dapat digunakan dalam berbagai instrument rangkaian. </p><div style="background-color: white; text-align: justify;"><p class="MsoListParagraphCxSpFirst" style="margin-left: 0.25in; text-indent: -0.25in;">1. Sumber Tegangan Terkendali Tegangan<o:p></o:p></p><p class="MsoListParagraphCxSpMiddle" style="margin-left: 0.25in; text-indent: 0.25in;">Sebuah bentuk ideal dari sumber tegangan yang mempunyai output V_0 </p><p class="MsoListParagraphCxSpMiddle" style="margin-left: 0.25in; text-align: justify; text-indent: 0.25in;"></p><p class="MsoListParagraphCxSpMiddle"> output dari tegangan terlihat bergantung pada input tegangan (perkalian dengan faktor k). tipe dari rangkaian ini dapat dibangun menggunakan sebuah op-amp sebagaimana yang terlihat pada gambar 15.7.</p><p class="MsoListParagraphCxSpMiddle">
</p><p class="MsoListParagraphCxSpMiddle" style="text-align: justify;"></p><p class="MsoListParagraphCxSpMiddle">
</p><p class="MsoListParagraphCxSpMiddle">Rangkaian tersebut satu menggunakan input inverting (pembalik) dan yang lainnya menggunakan input non-inverting (tidak pembalik).</p><p class="MsoListParagraphCxSpMiddle">Tegangan output dari gambar rangkaian 15.17a dapat dihitung dengan cara:</p><p class="MsoListParagraphCxSpMiddle" style="text-align: justify;"></p><p class="MsoListParagraphCxSpMiddle">Sedangkan tegangan output dari gambar rangkaian 15.17b adalah</p><p class="MsoListParagraphCxSpMiddle" style="text-align: justify;"><a href="https://blogger.googleusercontent.com/img/b/R29vZ2xl/AVvXsEiCRdNXqXWaQzXDW6QDw0XD8fWkzpu2ynxjpfwFEpiWUWE3KsvxRFLuIXbwZpMwMLZciti7F_5XKiTR_eFphsoyvfX6htrv_wq0mhQstXIL1yH4dTD11ro4ETfYVThHDLlj56IVcsJwEBNLIdoJldlQ4DpPwDQVAo89X3cktdKiMXbZPipihrh4p-4/s262/Screen shot%20(196).png" style="margin-left: 1em; margin-right: 1em; text-align: center; text-decoration-line:

none;"></p><p class="MsoListParagraphCxSpMiddle" style="margin-left: 0.25in; text-indent: -0.25in;">2. Sumber Arus Terkendali Tegangan<o:p></o:p></p><p class="MsoListParagraphCxSpMiddle" style="margin-left: 0.25in;">Bentuk ideal dari rangkaian yang arus outputnya terkendali oleh tegangan terlihat pada gambar 15.18.</p><p class="MsoListParagraphCxSpMiddle" style="margin-left: 0.25in; text-align: justify;"></p><p class="MsoListParagraphCxSpLast" style="margin-left: 0.25in;">Arus output bergantung terhadap tegangan input. Praktis sirkuit dapat dibangun sebagaimana pada gambar 15.19 dengan arus output melewati beban resistor R_L dikendalikan oleh tegangan input V_1 .</p><p class="MsoListParagraphCxSpLast" style="margin-left: 0.25in;">
</p><p class="MsoListParagraphCxSpLast" style="margin-left: 0.25in;">Arus yang melewati beban RI dapat dilihat menjadi:</p><p class="MsoListParagraphCxSpLast" style="margin-left: 0.25in; text-align: justify;"></p><p class="MsoListParagraphCxSpMiddle" style="margin-left: 0.25in;"><o:p></o:p></p><p class="MsoListParagraphCxSpMiddle" style="margin-left: 0.25in; text-indent: -0.25in;">3. Sumber Tegangan Terkendali Arus<o:p></o:p></p><p class="MsoListParagraphCxSpMiddle" style="margin-left: 0.25in; text-indent: 0.25in;">Bentuk ideal dari sumber tegangan terkendali oleh arus input ditunjukkan oleh gambar 15.20.</p><p class="MsoListParagraphCxSpMiddle" style="margin-left: 0.25in; text-align: justify; text-indent: 0.25in;"></p><p class="MsoListParagraphCxSpMiddle" style="margin-left: 0.25in; text-indent: 0.25in;">Tegangan output bergantung kepada arus inputnya. Bentuk praktis dari rangkaian yang dibangun menggunakan op-amp ditunjukkan pada gambar 15.21.</p><p class="MsoListParagraphCxSpMiddle" style="margin-left: 0.25in; text-indent: 0.25in;">
<p class="MsoListParagraphCxSpMiddle" style="margin-left: 0.25in; text-align:

href="https://blogger.googleusercontent.com/img/b/R29vZ2xl/AVvXsEgxfxt1its5MYuGcU3mzElv8XMXvq
qSYjT5G6odkCH3Svpd0-_nv4USzgakimzoHNSfj3kg5bz0XPeuwpKzo_OrX6sQgrtg5Hqg46AMbJGcyxwcVT-io
Ky2cLmvlvwM92Ncmfay9JeY4Kx3YBs0Fng4CkFj5sTb9egySBtCB5zkGBAeDLC6Cz-yEWZa/s696/Screensho
t%20(204).png" style="margin-left: 1em; margin-right: 1em; text-align: center; text-decoration-line:

none;"></p><p>

class="MsoListParagraphCxSpMiddle" style="margin-left: 0.25in; text-indent: 0.25in;">Tegangan outputnya dapat dilihat menjadi

class="MsoListParagraphCxSpMiddle" style="margin-left: 0.25in; text-align: justify; text-indent: 0.25in;"><a

href="https://blogger.googleusercontent.com/img/b/R29vZ2xl/AVvXsEiwKtEJOmdot911XUXnVD1pzJeij-C4ivf3IZdXHz5Rwbzs6crDpFdEuXxw7rDIcyPxsrdC98fZS9UNU54IZ1d75pyblNy3p-ZB6SX-iuSORbqCUAd9jTFXV9b0WNXHINB0AUYeP6ysVVZSuFzTROdr3KH1104qJonwWoiOPRq9IJzAMzr5REfjEW-/s208/Screenshot%20(205).png" style="margin-left: 1em; margin-right: 1em; text-align: center; text-decoration-line:

none;"></p><p>

class="MsoListParagraphCxSpMiddle" style="margin-left: 0.25in; text-indent: -0.25in;">4.<span style="font-stretch: normal; font-variant-east-asian: normal; font-variant-numeric: normal; line-height:

Sumber Arus Terkontrol Arus

Bentuk ideal dari rangkaian yang dikendalikan oleh arus input ditunjukkan pada gambar 15.22.

</p><p class="MsoListParagraphCxSpMiddle" style="text-align: justify;">a

href="https://blogger.googleusercontent.com/img/b/R29vZ2xl/AVvXsEhggDv1zFEG2ovPR-o7BnTf0GmCVWLMKRRAHgcVkfOGkCDrWeNQzruS7eOT1HqCQ_gU8L6RetlWs92BcE7D_5cHqUYyTNYEVPfdmJ3A_5Kj0cO6OhYTP8r-P5mYUj_qbZYylou0DtRmccwXMi-Z43j61McvlNU-Vj6cgWulZM4PIWPdCCBuaglr5/s230/Screenshot%20(208).png" style="margin-left: 1em; margin-right: 1em; text-align: center; text-decoration-line: none; ">

Pada rangkaian tipe ini, arus output bergantung pada arus input. Bentuk praktis dari rangkaianannya ditunjukkan oleh gambar 15.23.

[](https://blogger.googleusercontent.com/img/b/R29vZ2xl/AVvXsEjldfVU34wleNSvK3zM36zAJQR_cJIQPmxee6VsJULfqYNDQMHGE81PGVEJEjGGvAATNwdGCf_7wOwEOTIBULViw_KvUEIdC0mPgm2p3GukiT4-7k7QN2-FI449Zxg6U6sunkfusHT5mHRANOiR1w0MsMqhqrHKT7yOnpvquXpMsX1TsDS4S7I4g27s/s443/Screenshot%20(209).png)

Arus input I1 dapat ditunjukkan untuk menghasilkan pada arus output IO, oleh karena itu:

[](https://blogger.googleusercontent.com/img/b/R29vZ2xl/AVvXsEhb9eJsGiAN_7zJ3fGwcltziuoNXmKJlHEWKGG7wBfEAXENKxOzn-ZKNqq-WklPjEXS9fdj_OLB1GLTTUV6B7SFqw3qj6Nz-sPMVHURx1JsT_WKWaF6l0s7OtzFBw9eEA53KyqT2NjJ67AWXgj4Vpu_wGpt_OV0ssDlz2GspCGF9Mzks2NeSquz3gAD/s296/Screenshot%20(210).png)

 4. Example

[kembali]

Hitunglah L untuk rangkaian berikut

[!\[\]\(https://blogger.googleusercontent.com/img/b/R29vZ2xl/AVvXsEjnTJ6MFmC1y3tL1ypspNGFCRtszCo_gBR9XPT3g-iPh7W48vLk2yAPqAYzI21cb5-hpVXlqih80xltK-ad633Uje7s7k5mynjHepKbsJX2S4Yw7mr4Sj-AN6FcGllwqrOXJjyxqcfSdlcA-DXV1iflCq7oHEI7-uxkBzyWV6bx_ow5f-NzW3dQvr44/w258-h168/Screenshot%20\(212\).png\)](https://blogger.googleusercontent.com/img/b/R29vZ2xl/AVvXsEjnTJ6MFmC1y3tL1ypspNGFCRtszCo_gBR9XPT3g-iPh7W48vLk2yAPqAYzI21cb5-hpVXlqih80xltK-ad633Uje7s7k5mynjHepKbsJX2S4Yw7mr4Sj-AN6FcGllwqrOXJjyxqcfSdlcA-DXV1iflCq7oHEI7-uxkBzyWV6bx_ow5f-NzW3dQvr44/s463/Screenshot%20(212).png)

jawab:

[!\[\]\(https://blogger.googleusercontent.com/img/b/R29vZ2xl/AVvXsEjZIMb7yvsJ7-CJCbbBTmFmuXE943I5qXMrD3WOe2cnTAqGlXrzcDrAMz-W_EmlW7y9tYQ2BfRTouBSv7dFELD0CwJKXBq0aHHjzKJJ8XchdA2feSLi-pZleCiF2HYpGz4p73_ma0oIbIhEXiwdpXZDcox5nfia9Y0qjx3TBwswPBu5UAzCuOGWI0y2/w173-h48/Screenshot%20\(216\).png\)](https://blogger.googleusercontent.com/img/b/R29vZ2xl/AVvXsEjZIMb7yvsJ7-CJCbbBTmFmuXE943I5qXMrD3WOe2cnTAqGlXrzcDrAMz-W_EmlW7y9tYQ2BfRTouBSv7dFELD0CwJKXBq0aHHjzKJJ8XchdA2feSLi-pZleCiF2HYpGz4p73_ma0oIbIhEXiwdpXZDcox5nfia9Y0qjx3TBwswPBu5UAzCuOGWI0y2/s280/Screenshot%20(216).png)

2.

Hitunglah V_0 untuk rangkaian berikut

[!\[\]\(https://blogger.googleusercontent.com/img/b/R29vZ2xl/AVvXsEjcVRXZAYgc2ZUVNwzfzIDrhFrh_EHl29CuCDJ5A9tnxS1PL5DpS9mqAHcThwLhXKzSlqzPuXNTZebXfIkSNE0vX5rnm7fCeYZGIGndKTwkUQjHgoX0mtiYiLixSXm7o77N3WWltYKTTAh2JWcPNM0U6npiJ5p4rtG_dzxs8soxr_4qmyTTJx2M-dwY/s395/Screenshot%20\(213\).png\)](https://blogger.googleusercontent.com/img/b/R29vZ2xl/AVvXsEjcVRXZAYgc2ZUVNwzfzIDrhFrh_EHl29CuCDJ5A9tnxS1PL5DpS9mqAHcThwLhXKzSlqzPuXNTZebXfIkSNE0vX5rnm7fCeYZGIGndKTwkUQjHgoX0mtiYiLixSXm7o77N3WWltYKTTAh2JWcPNM0U6npiJ5p4rtG_dzxs8soxr_4qmyTTJx2M-dwY/s395/Screenshot%20(213).png)

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</div><div style="text-align: justify;">jawab: </div><div style="text-align: justify;"></div><div style="text-align: justify;"><br style="background-color: white; font-size: 15.84px;" /></div></div><div> 5. Problem[kembali]</div><div><div style="background-color: white; font-size: 15.84px; text-align: justify;">1. Problem 11</div><div style="background-color: white; font-size: 15.84px; text-align: justify;"><div class="separator" style="clear: both; text-align: center;"></div><pre class="tw-data-text tw-text-large XcVN5d tw-ta" data-placeholder="Terjemahan" dir="ltr" id="tw-target-text" style="text-align: left;">Untuk rangkaian Gambar 15.54, hitung IL.</pre></div><div style="background-color: white; font-size: 15.84px; text-align: justify;">Jawab : </div><div style="background-color: white; font-size: 15.84px; text-align: justify;"><div class="separator" style="clear: both; text-align: center;"></div><div class="separator" style="clear: both; text-align: center;">
</div>
2. Problem 12</div><div style="background-color: white; font-size: 15.84px; text-align: justify;"><div class="separator" style="clear: both; text-align: center;"></div><div class="separator" style="clear: both; text-align: center;">
</div></div><div style="background-color: white; font-size: 15.84px; text-align: justify;"></div><div style="background-color: white; font-size: 15.84px; text-align: justify;"></div><div style="background-color: white; font-size: 15.84px; text-align: justify;"></div><div style="background-color: white; font-size: 15.84px; text-align: justify;">Hitung Vo untuk sirkuit Gambar 15.55.
</div><div style="background-color: white; font-size: 15.84px; text-align: justify;">Jawab :
</div><div style="background-color: white; font-size: 15.84px; text-align: justify;">
</div><div style="background-color: white; font-size: 15.84px; text-align: justify;"> </div></div></div><div><br
</div><div></div></div><div> 6. Pilihan Ganda[kembali]<div><br
</div><div><div style="background-color: white; font-size: 15.84px; text-align: justify;"><span
lang="id">1. Bagian kutub positif dari OP-AMP
disebut bagian</div><div style="background-color: white; font-size: 15.84px;
text-align: justify;"> <br
</div><div style="background-color: white; font-size: 15.84px; text-align:
justify;"><span style="font-family: arial; font-size:
medium;"> a. Non Inverting</div><div
style="background-color: white; font-size: 15.84px; text-align: justify;"><span
style="font-family: arial; font-size: medium;"> </div><div
style="background-color: white; font-size: 15.84px; text-align: justify;"><span
style="font-family: arial; font-size: medium;"> </div><div style="background-color: white; font-size: 15.84px; text-align:
justify;"><span style="font-family: arial; font-size:
medium;"> </div><div style="background-color: white; font-size: 15.84px;
text-align: justify;"><span style="font-family: arial; font-size:
medium;"> c. Input</div><div style="background-color: white;
font-size: 15.84px; text-align: justify;"><span style="font-family: arial; font-size:
medium;"> </div><div style="background-color: white; font-size:
15.84px; text-align: justify;"><span style="font-family: arial; font-size:
medium;"> d. Output</div><div style="background-color: white;
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medium;">
</div><div style="background-color: white; font-size: 15.84px;
text-align: justify;">2. Berikut
adalah jenis-jenis sumber terkendali, kecuali ...</div><div style="background-color:
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medium;">
</div><div style="background-color: white; font-size: 15.84px;
text-align: justify;"> a. Sumber tegangan terkendali tegangan</div><div style="background-color: white;
font-size: 15.84px; text-align: justify;"><span style="font-family: arial; font-size:
medium;">
</div><div style="background-color: white; font-size: 15.84px;
text-align: justify;"> b. Sumber arus terkendali tegangan
</div><div style="background-color: white;
font-size: 15.84px; text-align: justify;"><span style="font-family: arial; font-size:
medium;">
</div><div style="background-color: white; font-size: 15.84px;

c. Sumber tegangan terkendali arus
d. Sumber arus terkendali arus dan tegangan

e. Sumber arus terkendali arus dan tegangan

Prinsip Kerja

7. Prinsip Kerja

[kembali]

Cara kerja rangkaian OP-AMP. Pertama, arus akan mengalir dari power supply berupa battery dan Generator DC dengan tegangan sebesar 12V. Setelah itu, arus akan mengalir melewati resistor yang mana terjadi penurunan tegangan atau arus. Kemudian, arus akan mengalir menuju OP-AMP yang mana terjadi penguatan sinyal listrik. Apabila arus ke bagian positif dari OP-AMP, maka tegangan output OP-AMP akan menjadi positif juga, sebaliknya apabila arus menuju ke bagian negatif dari OP-AMP, maka tegangan output OP-AMP akan berubah tanda, jika input positif, maka outputnya akan menjadi negatif, sedangkan jika input negatif, maka outputnya akan menjadi positif.

[kembali]

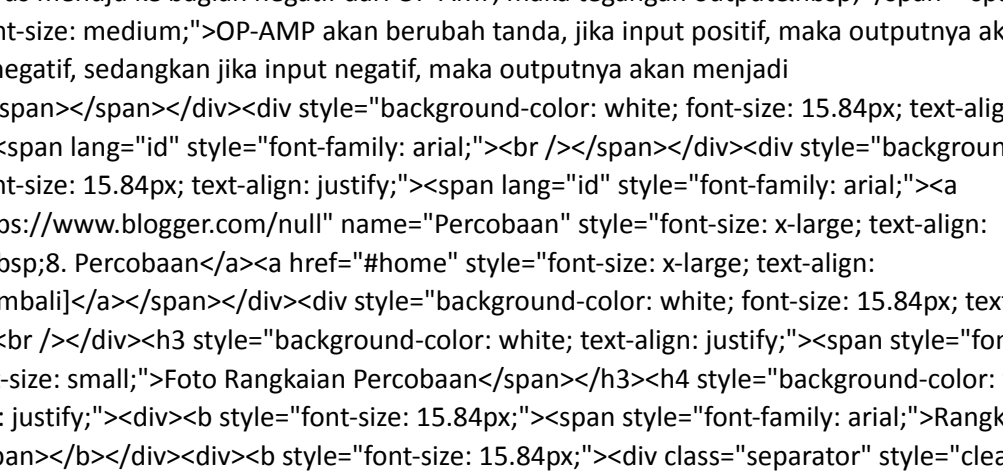
Percobaan

[kembali]

Foto Rangkaian Percobaan

Rangkaian

15.16



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" width="320" /></div>

</div>Rangkaian 15.17a</h4><div style="background-color: white; font-size: 15.84px; text-align: justify;">
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</div><div class="separator" style="clear: both; text-align: center;">
</div><div class="separator" style="clear: both; text-align: center;">
</div>Rangkaian 15.17b

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</div><div class="separator" style="clear: both; text-align: left;">Rangkaian 15.18</div><div class="separator" style="clear: both; text-align: left;"><div class="separator" style="clear: both; text-align: center;"></div>

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</div><div class="separator" style="clear: both; text-align: left;">Rangkaian 15.19</div><div class="separator" style="clear: both; text-align: center;"><div class="separator"

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</div>Rangkaian 15.55

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Video Percobaan</div><div style="background-color:
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</div><div style="background-color: white; font-size: 15.84px; text-align: justify;"> 9. Download[kembali]</div><div style="background-color: white; text-align: justify;"> </div><div style="background-color: white; text-align: justify;">Rangkaian 15.16 klik disini</div><div style="background-color: white; text-align: justify;">Rangkaian 15.17a klik disini</div><div style="background-color: white; text-align: justify;">Rangkaian 15.17b klik disini</div><div style="background-color: white; text-align: justify;">Rangkaian 15.18 klik disini</div><div style="background-color: white; text-align: justify;">Rangkaian 15.19 klik disini</div><div style="background-color: white; text-align: justify;">Rangkaian 15.20 klik disini</div><div style="background-color: white; text-align: justify;">Rangkaian 15.21 klik disini</div><div style="background-color: white; text-align: justify;">Rangkaian 15.22 klik disini</div><div style="background-color: white; text-align: justify;">Rangkaian 15.23 <a

[illegible]