DC to AC converters

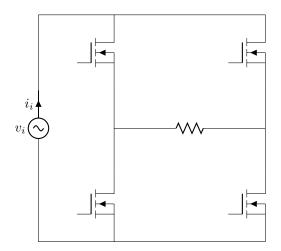
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1 DC to AC converters

1.1 Full bridge circuit



- 2 Square wave control
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- 2.2 Phase shift control
- 3 PWM control
- 3.1 Unipolar control
- 3.2 Bipolar control
- 4 Triphasic inverters

5 Inverter amplitudes tables

PWM Sinusoidal Unipolar. Normalized amplitudes, V_n/V_{DC}

$\overline{m_a}$	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	1.00
n = 1	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	1.00
n = 2mf + -1	0.10	0.19	0.27	0.33	0.36	0.37	0.35	0.31	0.25	0.18
n= 2mf+-3	0.00	0.00	0.01	0.02	0.04	0.07	0.10	0.14	0.18	0.21

PWM Sinusoidal Bipolar. Normalized amplitudes, V_n/V_{max}

$\overline{m_a}$	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	1.00
n = 1	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	1.00
n = mf	1.27	1.24	1.20	1.15	1.08	1.01	0.92	0.82	0.71	0.60
n = mf + -2	0.00	0.02	0.03	0.06	0.09	0.13	0.17	0.22	0.27	0.32

PWM Sinusoidal Triphasic. Normalized amplitudes, V_n/V_{DC} (line tension)

$\overline{m_a}$	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	1.00
n = 1	0.087	0.173	0.260	0.346	0.433	0.520	0.606	0.693	0.779	0.866
n=mf+-2	0.003	0.013	0.030	0.053	0.801	0.114	0.150	0.190	0.232	0.275
n = 2mf + -1	0.086	0.165	0.232	0.282	0.313	0.321	0.307	0.272	0.221	0.157