Power Supplies and Converters - 4a



DC-AC converter (inverter) is an electrical device that converts DC input voltage into desired AC output voltage.

 I_{min}

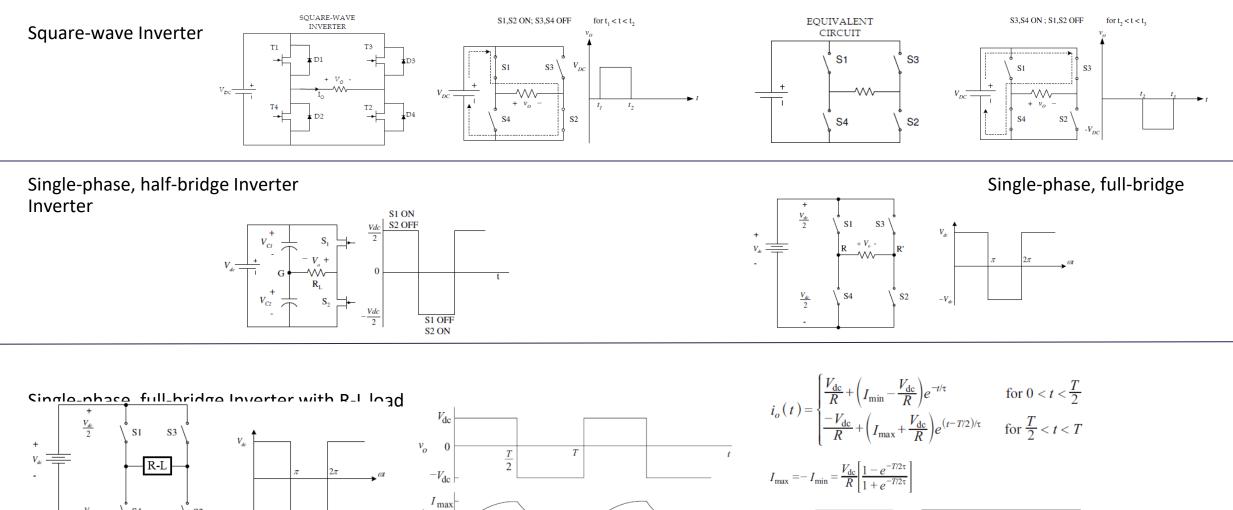
2

 $\frac{V_{dc}}{2}$

S4

S2

 $-V_{dc}$



 $I_{rms} = \sqrt{\frac{1}{T} \int_{0}^{T} i^{2}(t) d(t)} = \sqrt{\frac{2}{T} \int_{0}^{T/2} \left[\frac{V_{dc}}{R} + \left(I_{min} - \frac{V_{dc}}{R} \right) e^{-t/\tau} \right]^{2} dt}$

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