

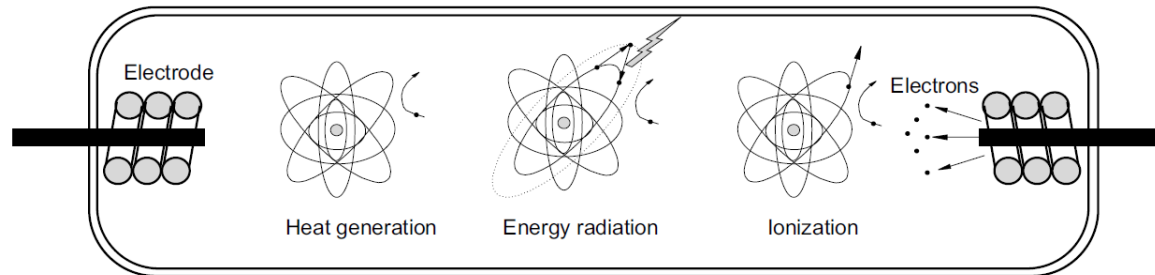
Energoelektronika

xx. Selected applications

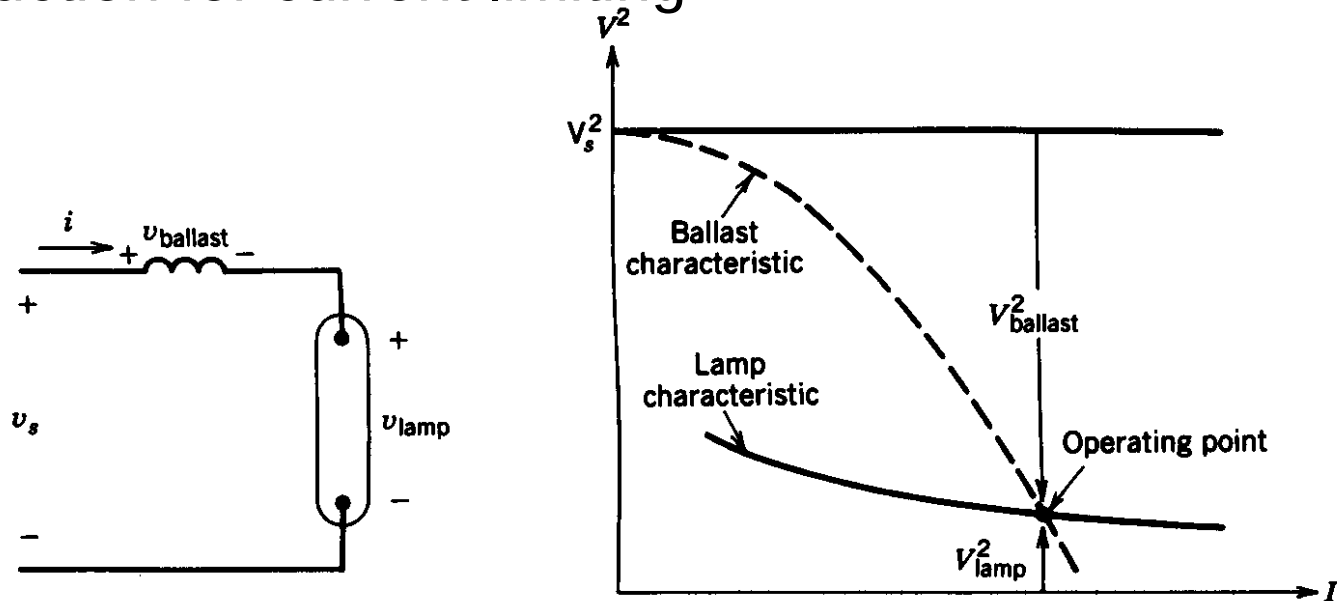
dr inż. Dariusz Janiszewski

Plan

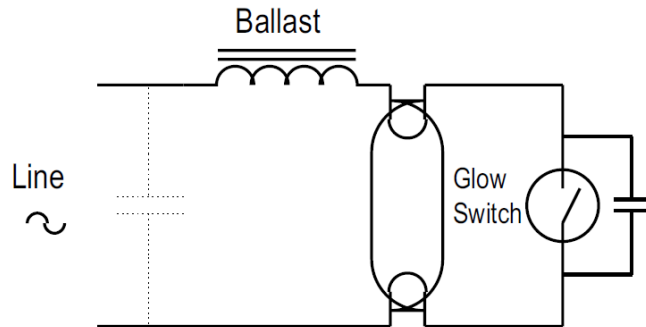
Fluorescent Lamp



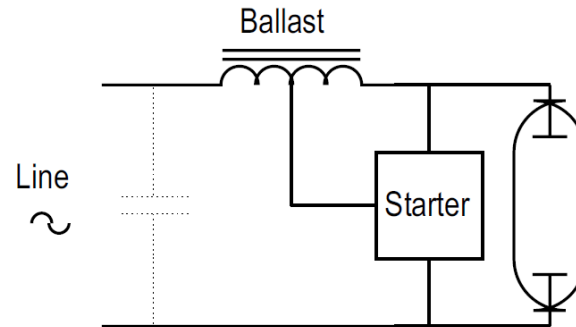
► Induction for current limiting



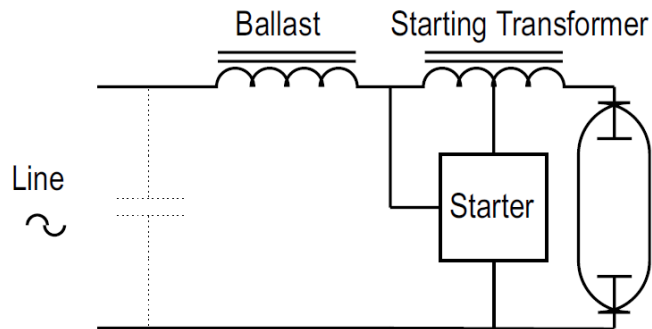
FL standard ballaster



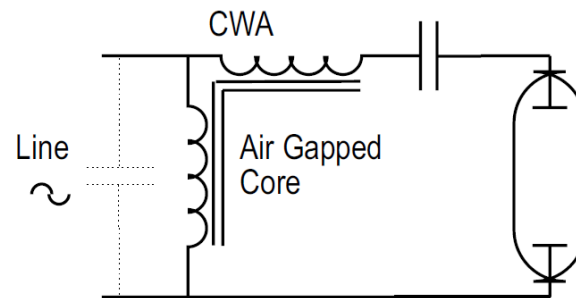
(a)



(b)

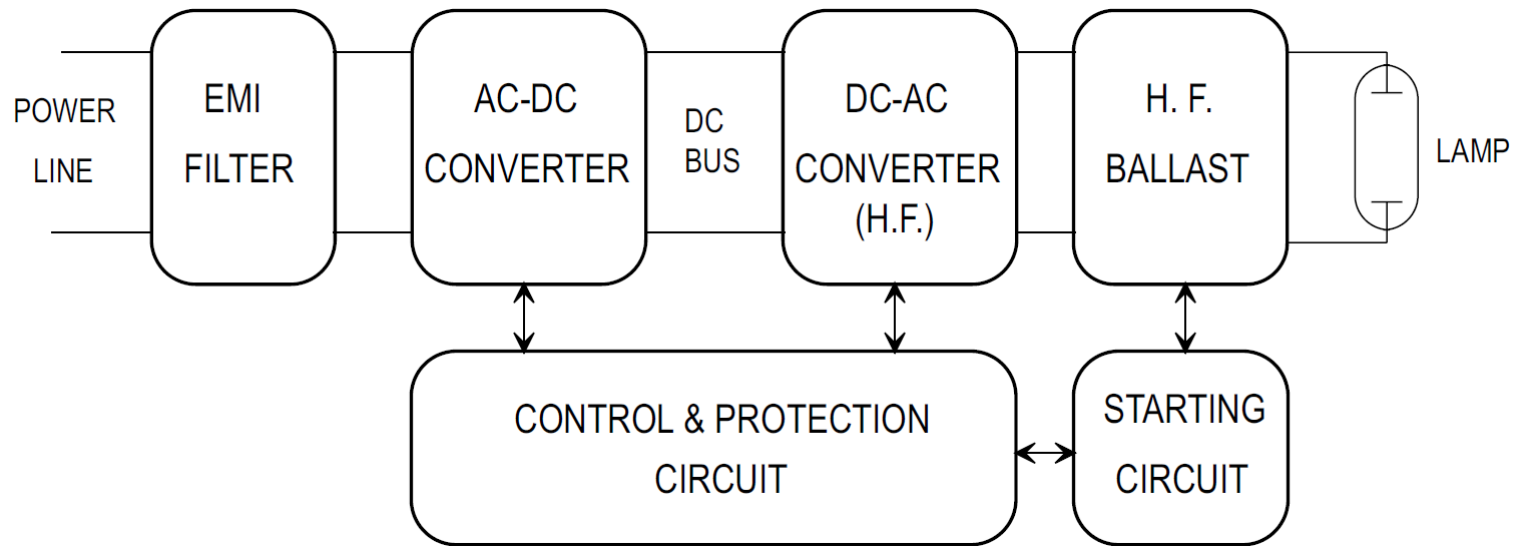


(c)

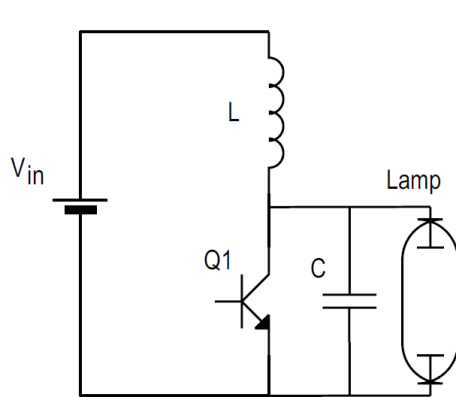


(d)

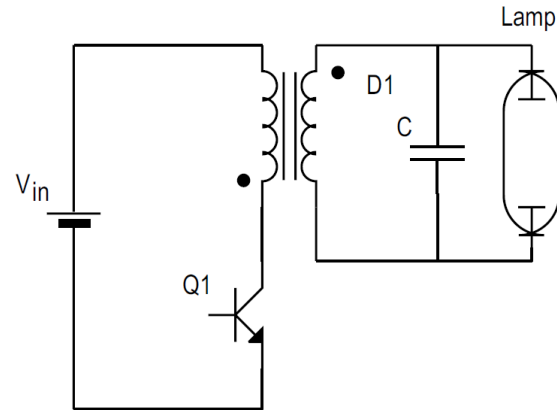
FL idea of PE ballaster



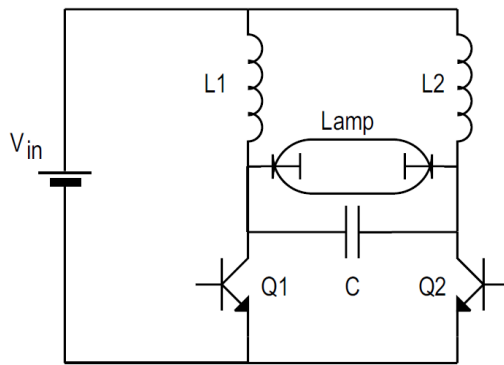
FL nonresonant converters



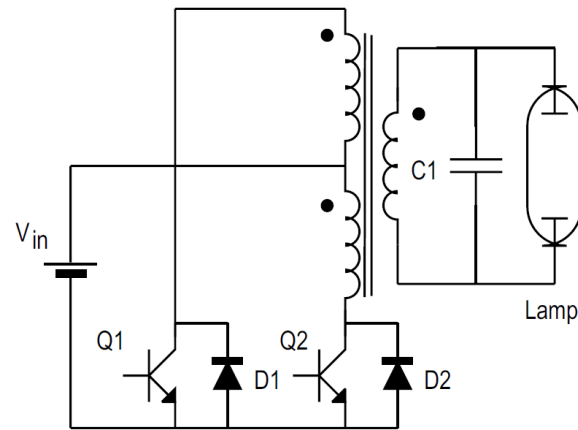
(a)



(b)

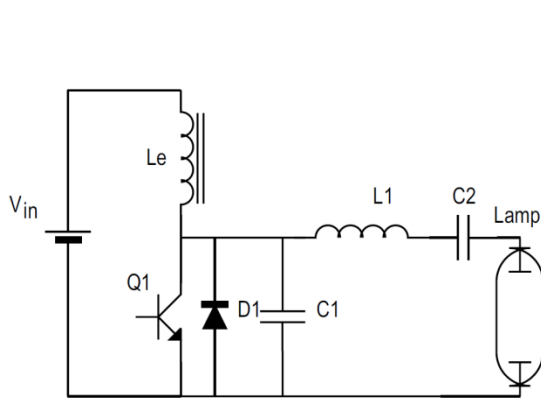


(c)

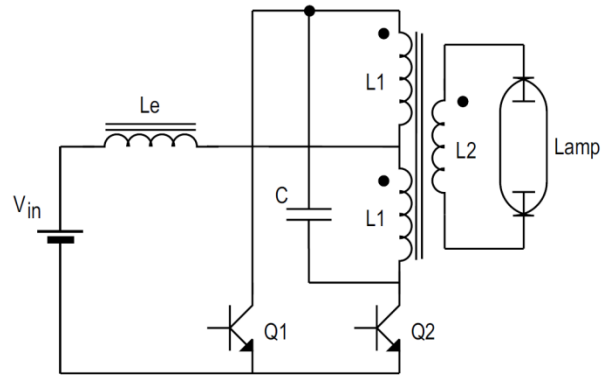


(d)

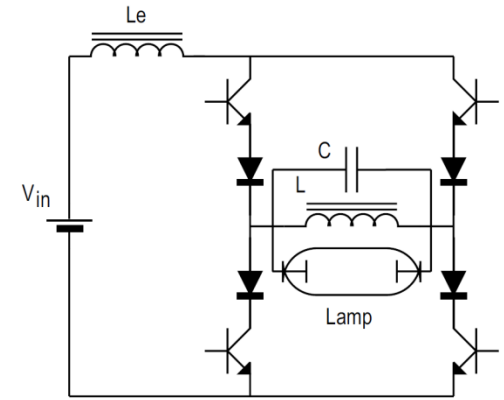
FL resonant converters current-fed



(a)

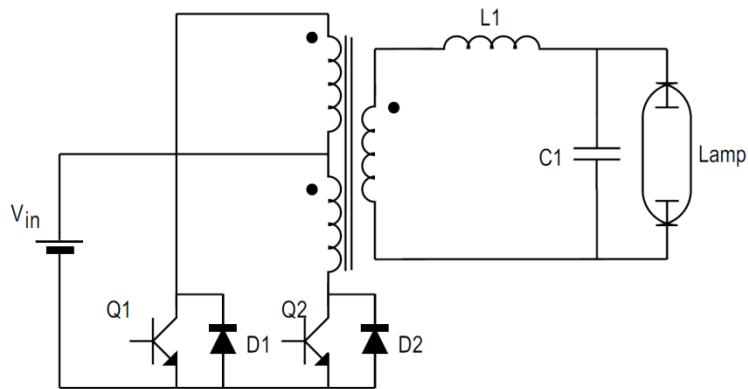


(b)

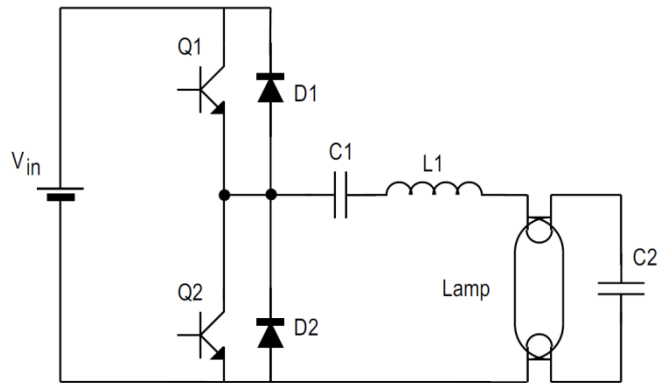


(c)

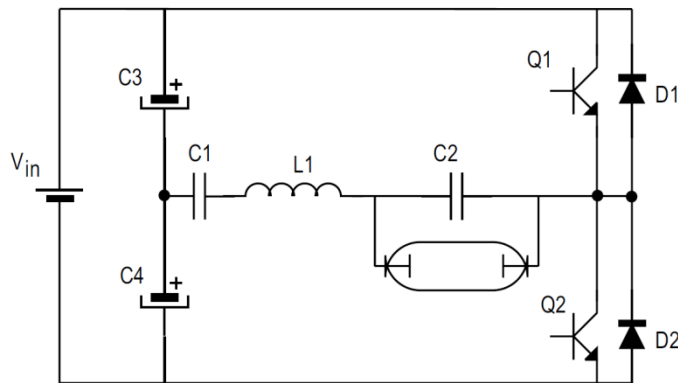
FL resonant converters voltage-fed



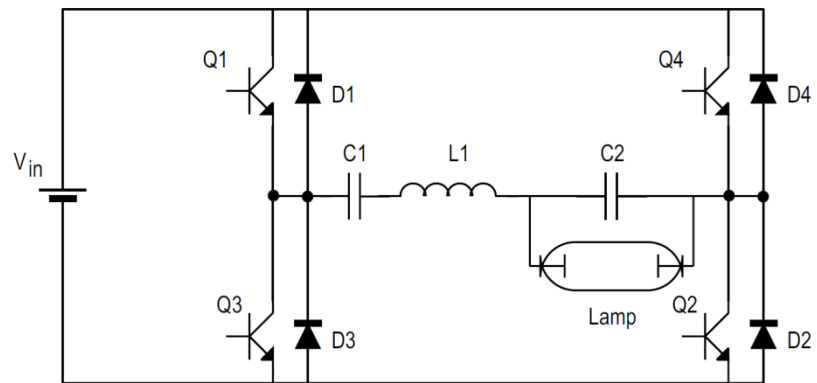
(a)



(b)



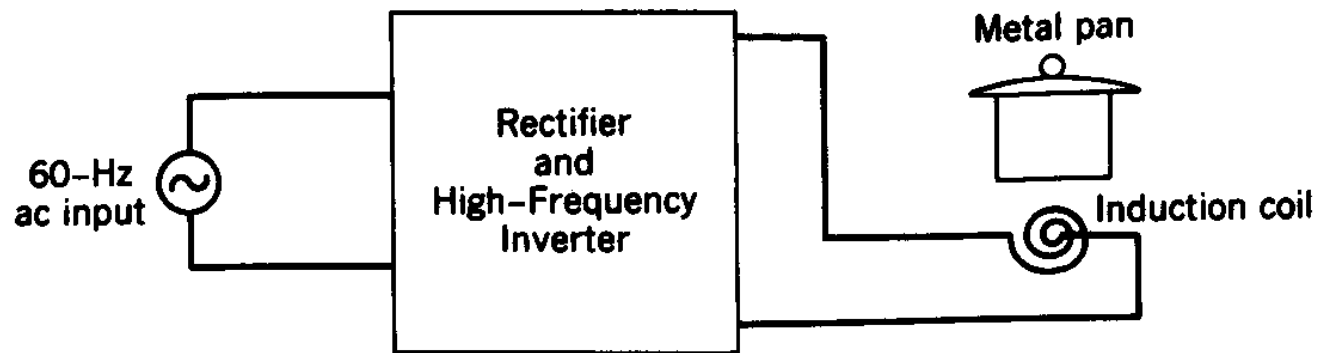
(c)



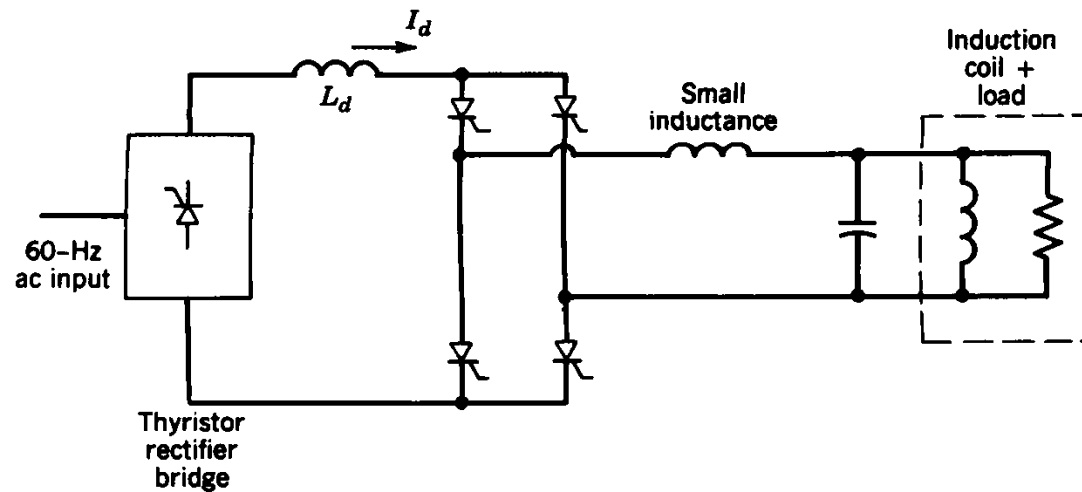
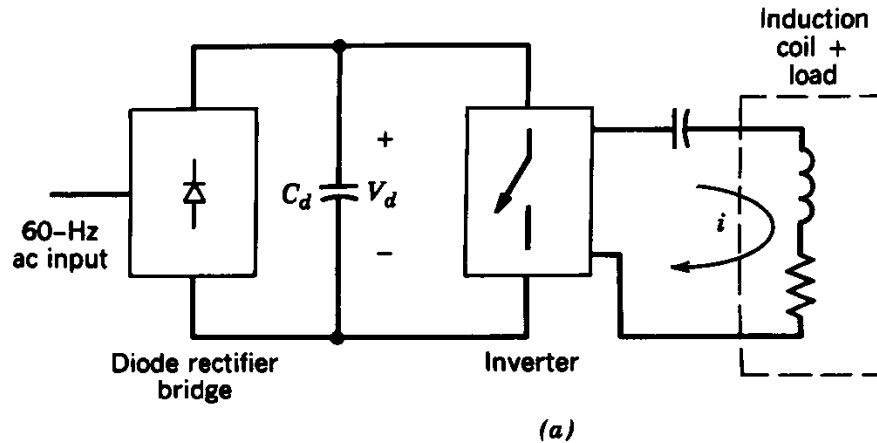
(d)

Induction cooking

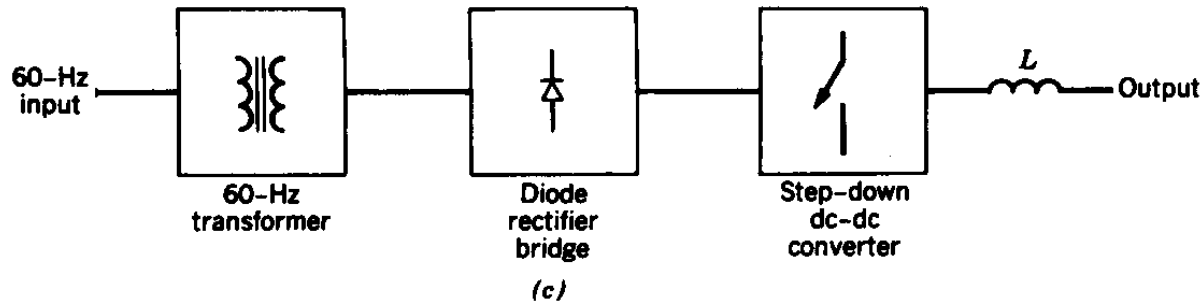
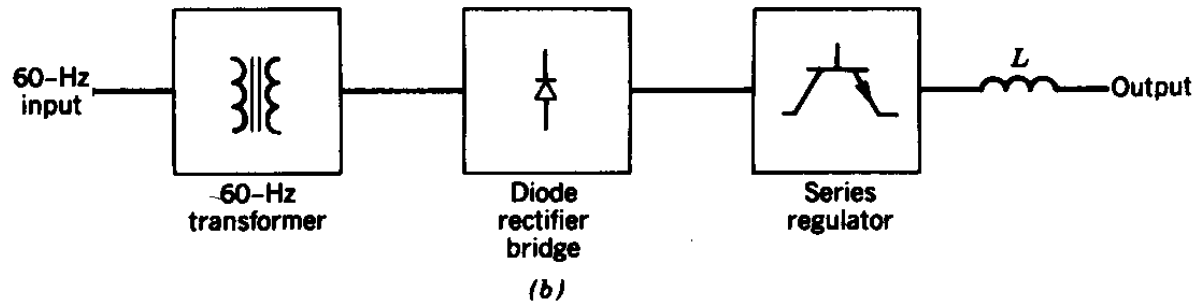
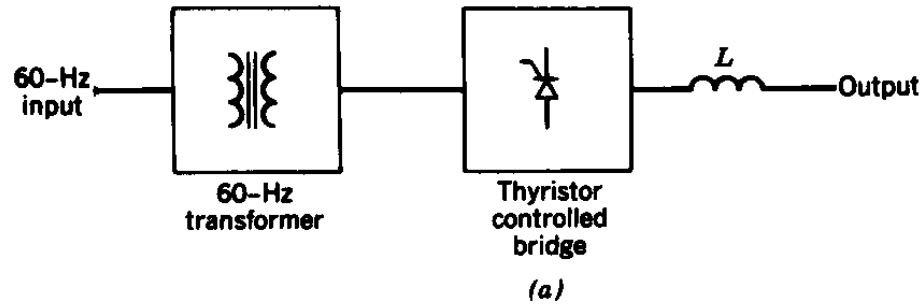
- ▶ Sinusoidal current



Induction cooking

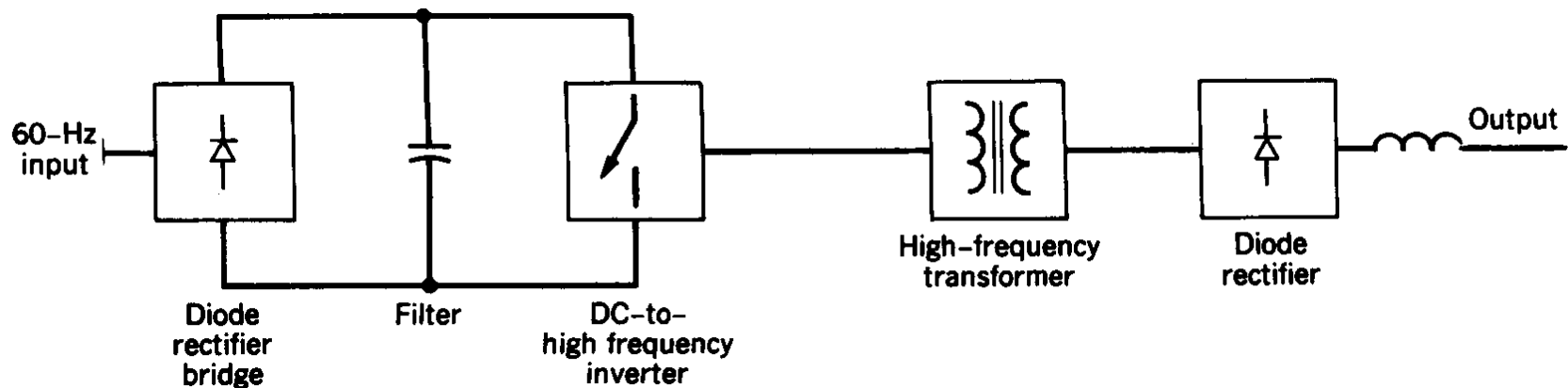


Welding Application

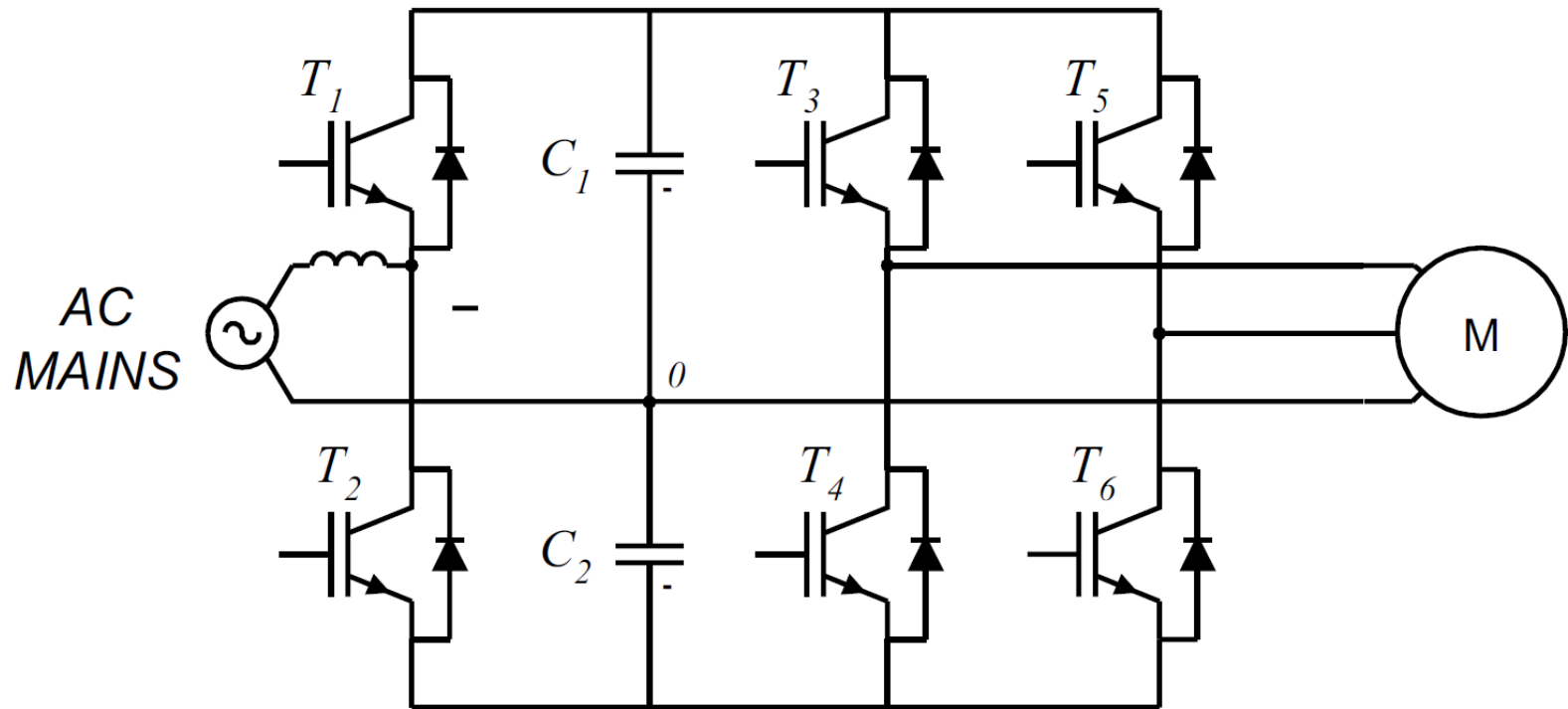


Welding Application

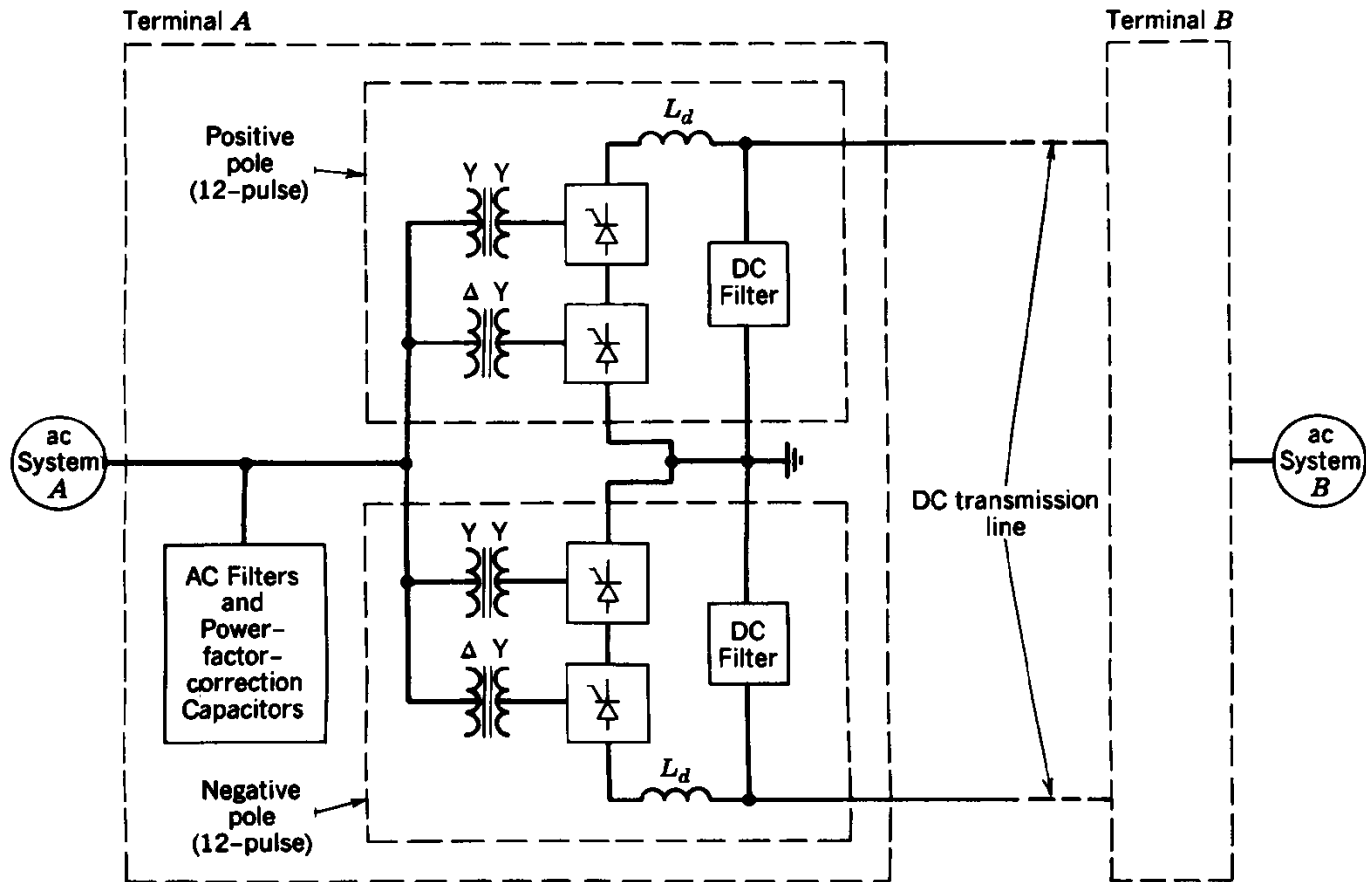
► Lighter idea



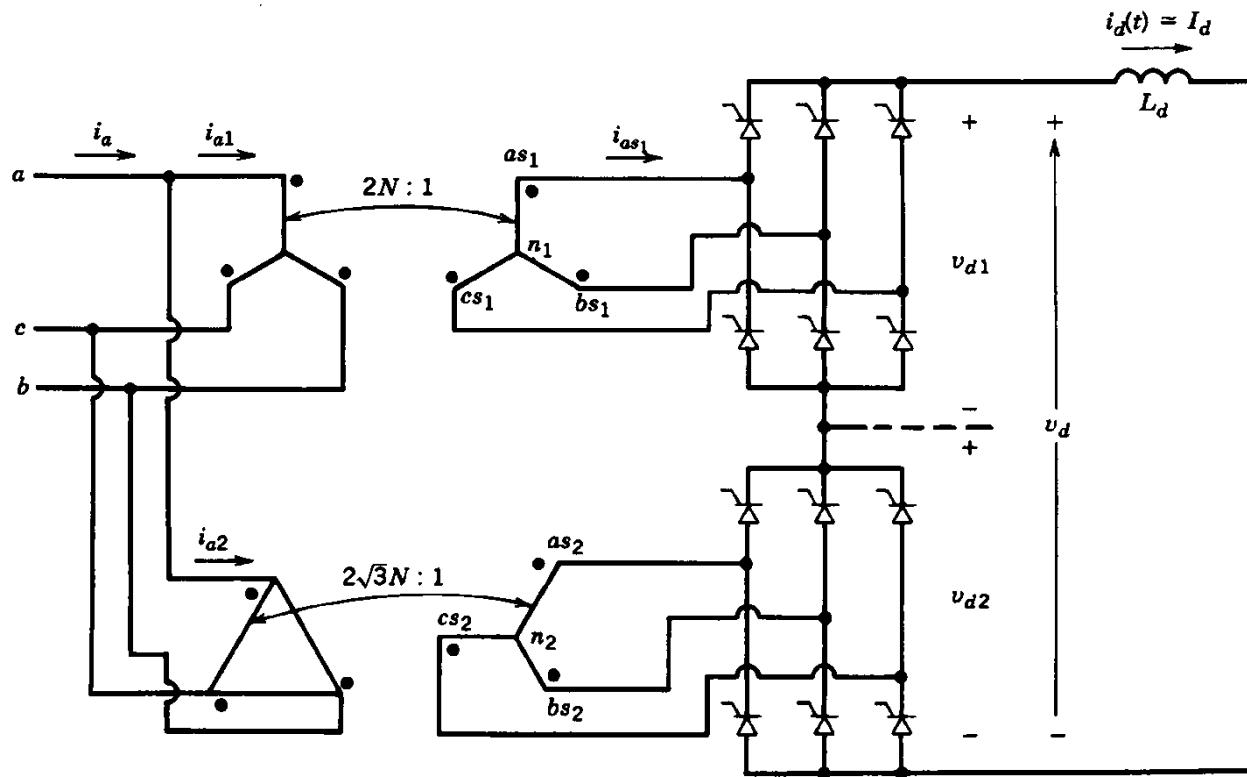
Low cost IM drive



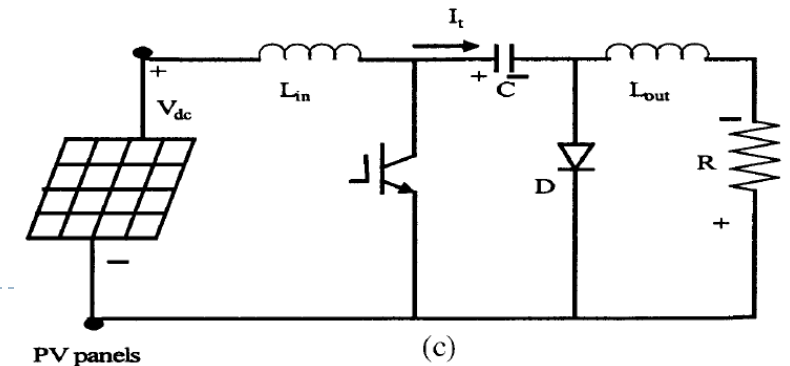
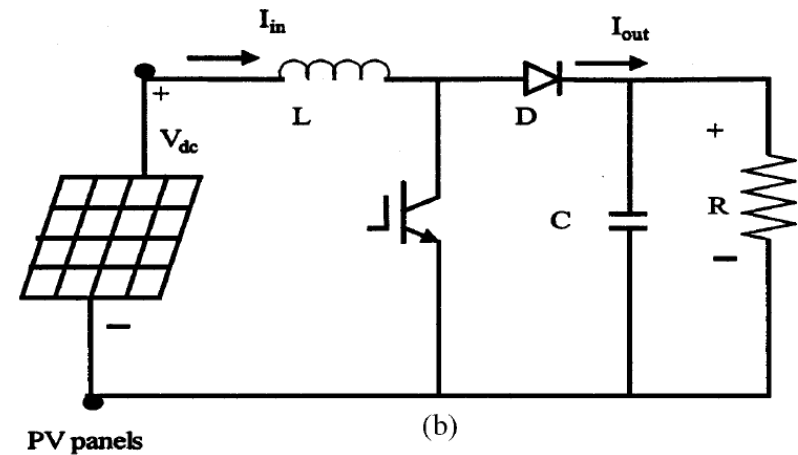
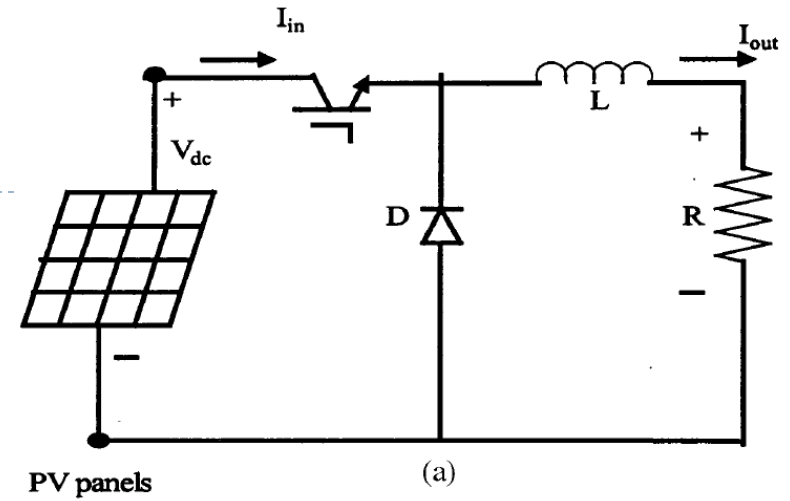
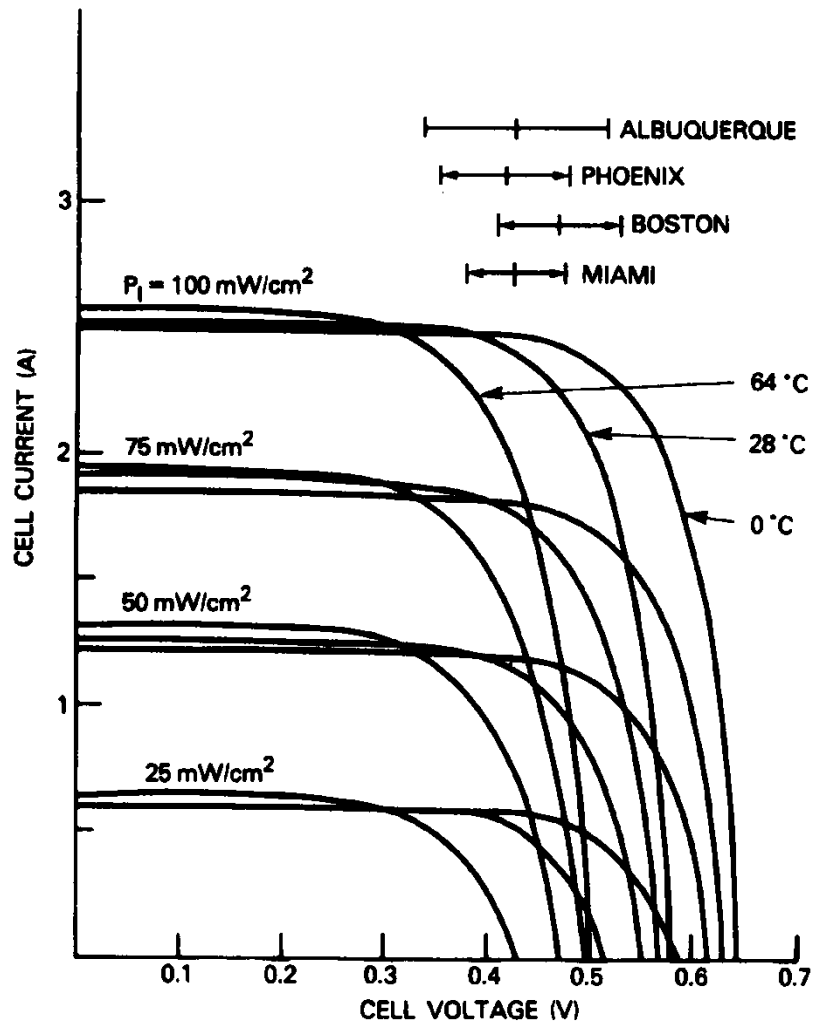
HVDC transmission



HVDC transmission



Solar Cells



Solar Cells plus battery

