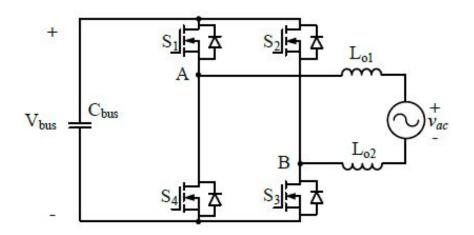
RUIDO Y CORRIENTES DE FUGA DE MICROINVERSORES

Universidad Industrial de Santander

Juan José León Carreño Maribel Duarte Romero





Principales características:



- Simplicidad estructural.
- Corre diferentes esquemas de modulación





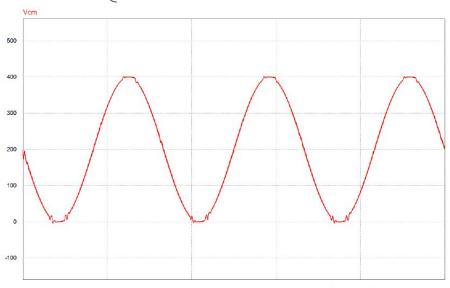
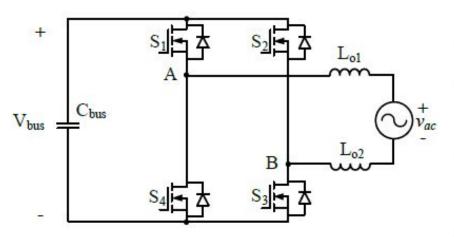


Fig. 1 Ruido CM - Modulación Bipo arejor escenario



Principales características:



- Simplicidad estructural.
- Corre diferentes esquemas de modulación

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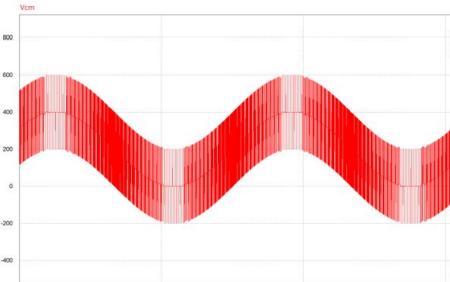
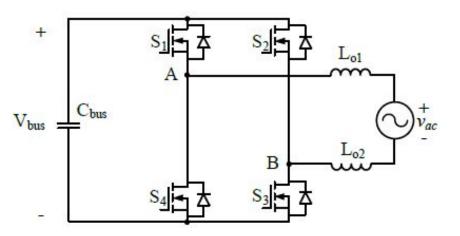


Fig. 2 Ruido CM - Modulación Unipolar escenario



Principales características:



- Simplicidad estructural.
- Corre diferentes esquemas de modulación





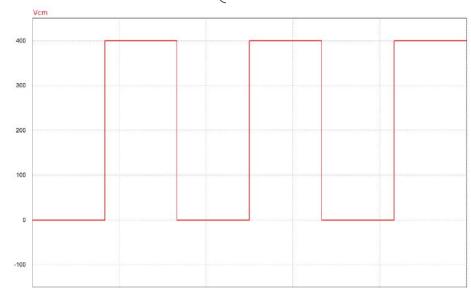
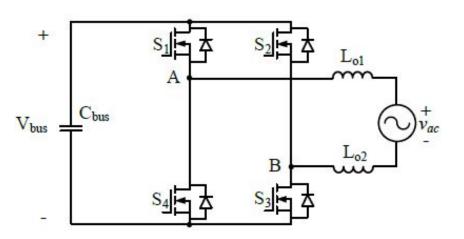


Fig. 3 Ruido CM - Modulación Unipolar asimétrica



Principales características:



Simplicidad estructural.

Corre diferentes esquemas de modulación





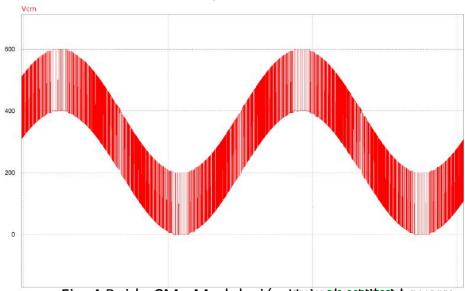
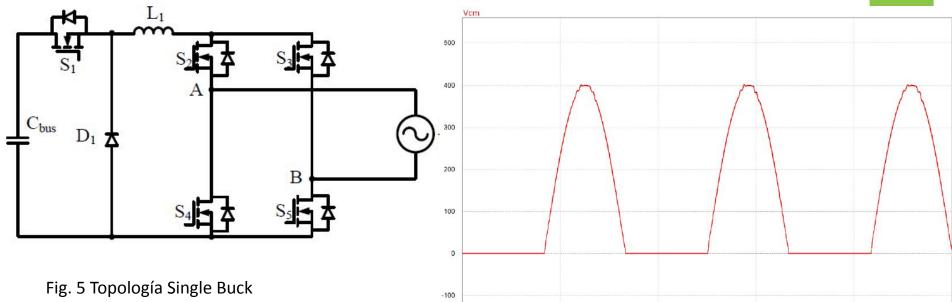


Fig. 4 Ruido CM - Modulación Unipolar Hibrido

Single Buck Inverter



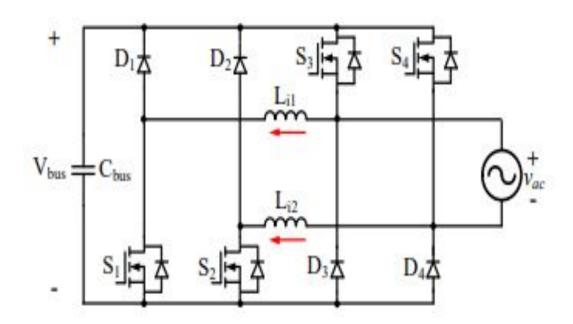






Unipolar Dual Buck Inverter



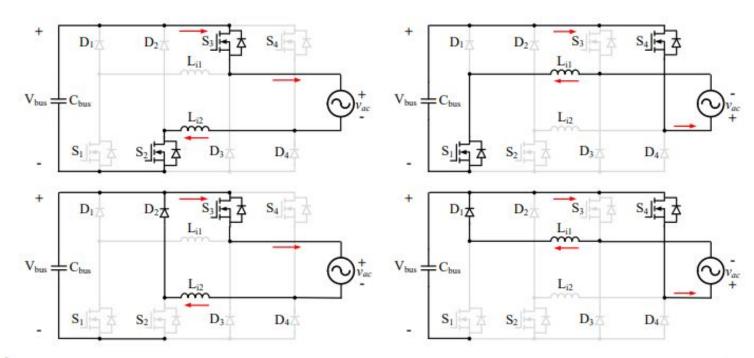




Modo de Operación



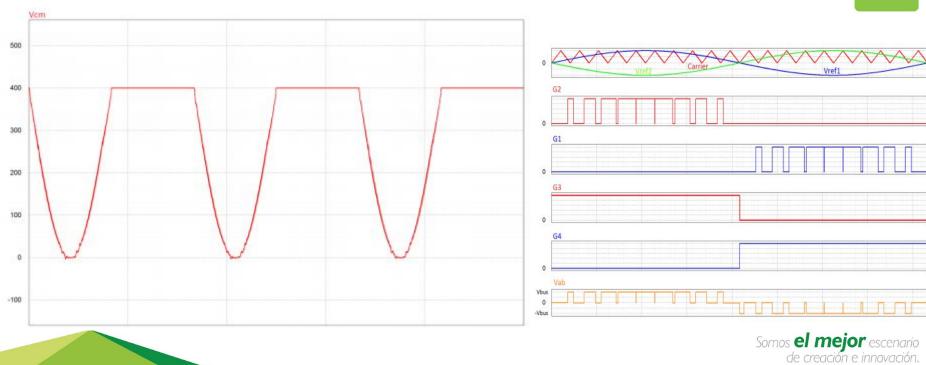
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Ruido modo común

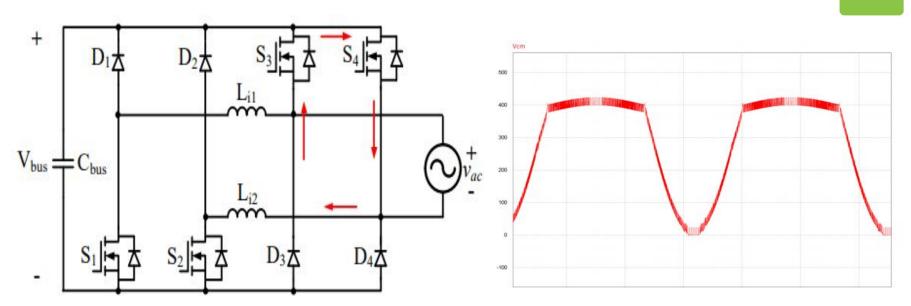






Problema



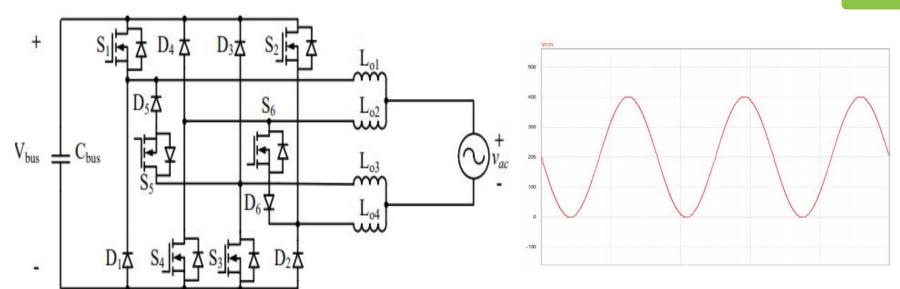






SHREC Inverter





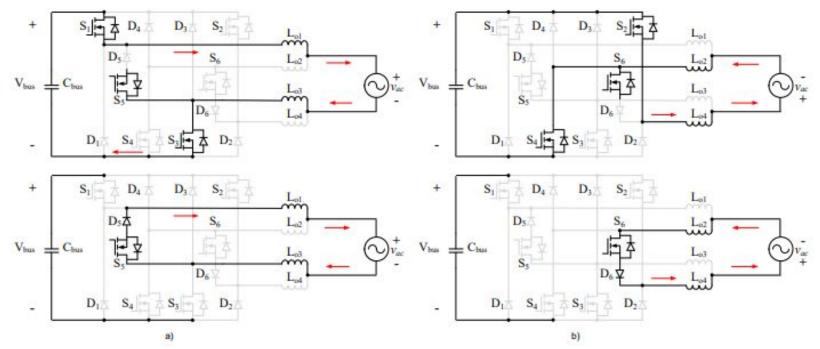




Modo de Operación



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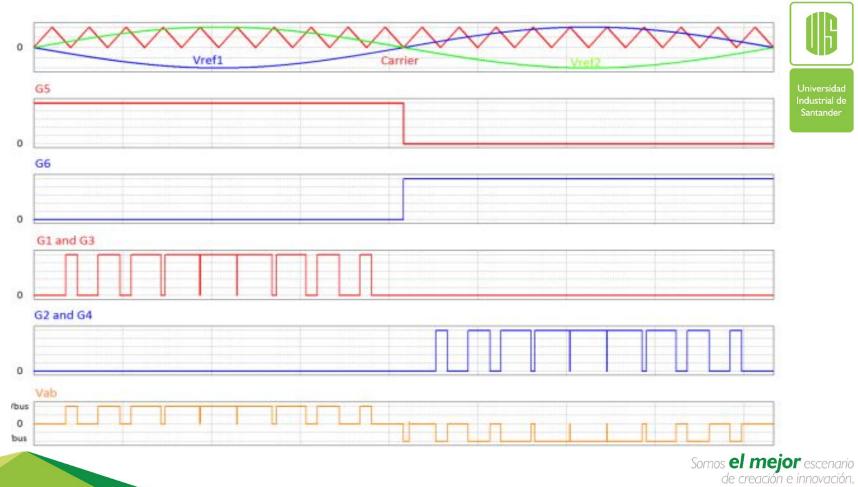


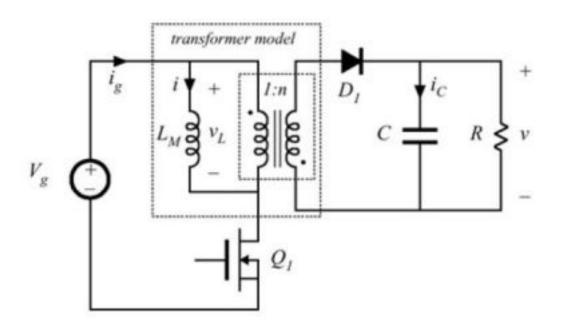
Tabla Comparativa

Inversor	Eficiencia %	# Switch	# Diodos	# L	Ruido CM	Corrientes fuga	Costos
FB Bipolar	97-98	4	0	2	Mejor	Bajo	LOW
FB Unipolar	97-98	4	0	2	Peor	Alto	LOW
FB Unipolar asimétrico	97-98	4	0	2	Aceptable	Regular	LOW
FB Unipolar híbrido	97-98	4	0	2	Malo	Alto	LOW
Unipolar dual buck	98.49	4	2	2	Bueno	Bajo	HIGH
H5	98.42	6	0	2	Bueno	Regular	MEDIUM
SHREC	98.67	6	2	2	Mejor	Bajo _{Somo:}	el mestresce



Convertidor flyback

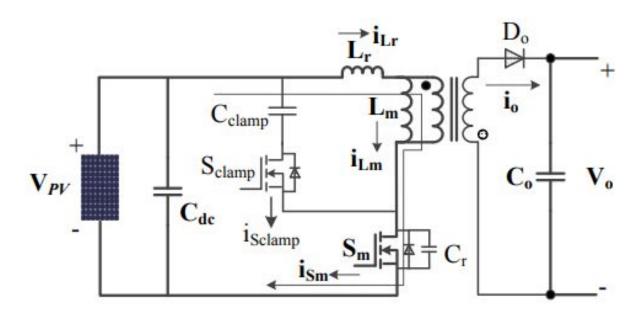






resonant active-clamp flyback converter



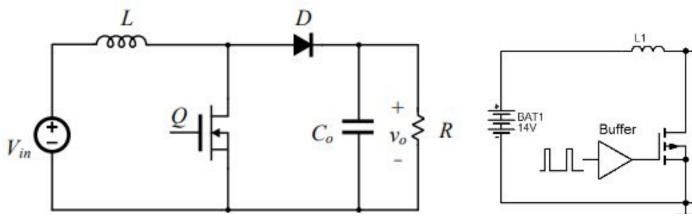


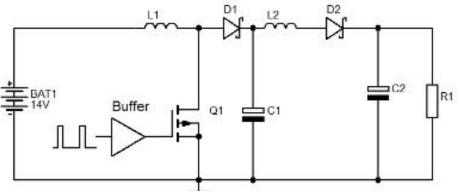




Convertidores DC-DC



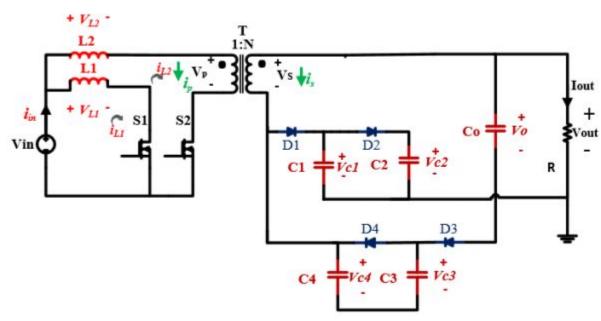








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