

LED Driver Selection Guide

AC/DC, DC/DC, Constant Current (CC) / Constant Voltage (CV) output

AC/DC

Triac Dimmable CC		PF	Power	Mosfet	Note
Linear	SY22637x	>0.7	16W	350v	Best DIM
	SY22641/2	>0.7	16W/12W	350v/500V	Low BOM
	SY22637P	>0.9	12W	350v	
Buck	SY22665AAC	>0.9	10W	350v	
	SY22669FAC	>0.9	18W	350v	
Flyback	SY22664FAC	>0.9	40W	N/A	
Buck Boost	SY22668/753	>0.9	10W/15W	350v	Low BOM
	SY22630/631/731	>0.9	12W/15W/16W	350v	Dimmer Detect
	SY22633/4/6	>0.9	12W/15W	600v/700v	
Boost	SY22781/3	>0.9	15W/25W	350v	Iout<100mA
	SY22791/3	>0.9	15W/40W	500v	Iout<100mA

Constant Voltage Output		PF	Power	Mosfet
PFC Boost	SY22743/4 (230VAC)	0.95	50W/60W	500v
Flyback	SY22650/5	0.9	80W/60W	N/A
Buck	SY22654	0.9	10W	500v

PWM Dimmable CC		PF	Power	Mosfet	Note
Buck	SY22656	>0.9	12W	600v	
	SY22651	>0.9	80W	N/A	with DCDC option
Flyback	SY22652	>0.9	80W	N/A	with DCDC option
	SY22658	>0.9	80W	N/A	Multi Stage Dim; CV mode for MCU
Buck-Boost	SY22657	>0.9	12W	600v	5% Dimming

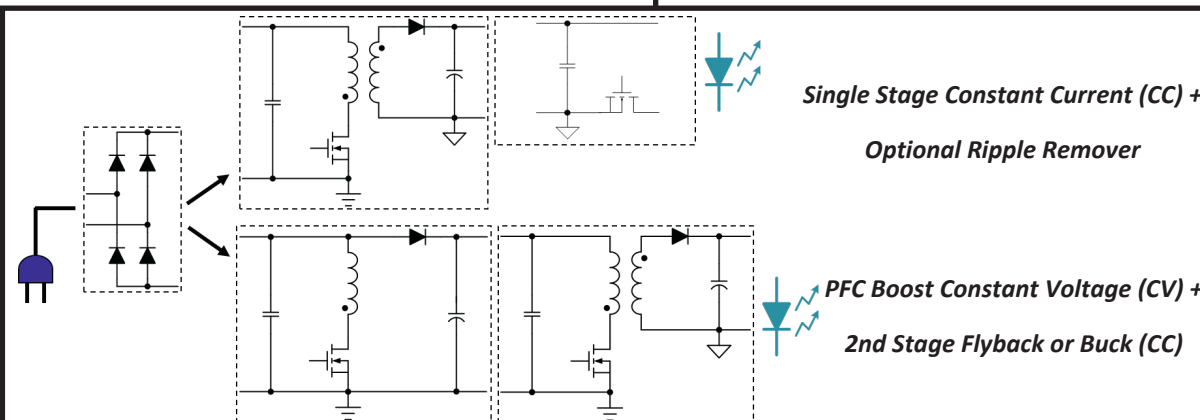
MR16(12VAC)		PF	Power	Fet	Note
Boost	SY20605/6/8	0.9	5-8W	40v	Non Dim
	SY22627	0.9	8W	40v	Triac Dimmable; Boost+LDO
	SY22628/9	N/A	15-20W	60v	Triac Dimmable

Ripple Remover	Mosfet	LED Current	Note
SY22601	100v	0.25A	Non Dim
SY22602/3/4	60v	0.6A/1.2A/1.5A	

Dim Interface	Note
SY28611	PWM, Analog, 0-10v dimming interface
SY28612	Dim interface with Ripple remover

2 channel Warm/Cold Led	PF	Power	Mosfet	Note
SY22653	0.9	15W	N/A	0-100% color mixing; 5% Dim
SY22659	0.9	12W	600V	0-100% color mixing; 5% Dim

Non-Dimmable CC		PF	Power	Mosfet	Switch	Note
Buck	SY22697/717/718	>0.5	30W/24W	500v	High side	
	SY22676/725	>0.9	20w/24W	600v	High Side	230VAC
	SY22713/4	>0.9	20/24W	500v	Low side	
	SY22777/15	>0.9	8W/20W	600v	Low side	230VAC
	SY22723/24/26/78	>0.9	20-35W	600v	Low side	
	SY22678	>0.9	100W	N/A	Low side	
Flyback	SSL5021/31	0.5/0.9	25W	N/A	High side	
	SY22686/7/8	>0.5	5.5-9.5W	600v	Low side	
	SY22747	>0.5	50W	650v	High side	Low BOM
	SY22775	>0.9	20W	650v	High side	Low BOM
	SY22773/6	>0.9	17W/22W	700v	Low side	
Flyback	SY22674/9	>0.9	100W	N/A		SO8/SOT23



DC/DC

DCDC Constant Current		Mosfet	LED current	Fsw	Note
Buck	SY22643/5/6/8/9	30v/60v/80v	0.5A-2A	300k-500khz	
	SY22151/73/5/7	25v/30v	0.8A-3A	1Mhz	
	SY22728	23v	1.5A-2A	1Mhz	Syn-Buck
Boost	SY22146	30v	2A	1Mhz	Vin max 5.5v
	SY22101/9	40v	0.3A/1A	1Mhz	
	SY22102/3/4	30v/40v	0.3A	1Mhz	One wire digital dim

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