



Selection Guide

AC-DC LED Lighting Driver

Power Number	Function	Package	Integrated FETs	Max Power	Dimming	Vin Range	PFC	Isolation	Opto-coupler	Open/Short LED Protection	Peak Efficiency	Typical Applications
SY58004	Flyback	SO8	500V	14W	NO	110V	YES	NO	NO	YES	91%	Tube/PAR/Down Light/Bulb
SY58102	Flyback	SO8	600V	9.5W	NO	AC LINE	YES	NO	NO	YES	87%	Tube/PAR/Down Light/Bulb
SY58103	Flyback	SO8	600V	11W	NO	AC LINE	YES	NO	NO	YES	87%	Tube/PAR/Down Light/Bulb
SY58200	Flyback	SO8	700V	3W	NO	AC LINE	YES	NO	NO	YES	80%	Tube/PAR/Down Light/Bulb
SY58201	Flyback	SO8	700V	5W	NO	AC LINE	YES	NO	NO	YES	80%	Tube/PAR/Down Light/Bulb
SY58202	Flyback	SO8	700V	8W	NO	AC LINE	YES	NO	NO	YES	87%	Tube/PAR/Down Light/Bulb
SY58203	Flyback	SO8	700V	10W	NO	AC LINE	YES	NO	NO	YES	87%	Tube/PAR/Down Light/Bulb
SY58241	Buck PFC,High Side Switch	SO8	500V	9W	NO	AC LINE	YES	NO	NO	YES	85%	Tube/PAR/Down Light/Bulb
SY58242	Buck PFC,High Side Switch	SO8	500V	12W	NO	AC LINE	YES	NO	NO	YES	90%	Tube/PAR/Down Light/Bulb
SY58243/A	Buck PFC,High Side Switch	SO8	500V	15W	NO	AC LINE	YES	NO	NO	YES	86%	Tube/PAR/Down Light/Bulb
SY58244	Buck PFC,High Side Switch	SO8	500V	19W	NO	AC LINE	YES	NO	NO	YES	92%	Tube/PAR/Down Light/Bulb
SY58291	Buck PFC,Low Side Switch	SO8	500V	9W	NO	AC LINE	YES	NO	NO	YES	90%	Tube/PAR/Down Light/Bulb
SY58292	Buck PFC,Low Side Switch	SO8	500V	12W	NO	AC LINE	YES	NO	NO	YES	90%	Tube/PAR/Down Light/Bulb
SY58293/A	Buck PFC,Low Side Switch	SO8	500V	10W	NO	AC LINE	YES	NO	NO	YES	87%	Tube/PAR/Down Light/Bulb
SY58294/A	Buck PFC,Low Side Switch	SO8	500V	15W	NO	AC LINE	YES	NO	NO	YES	92%	Tube/PAR/Down Light/Bulb
SY58541	Buck PFC,High Side Switch	SO8	600V	7.5W	NO	AC LINE	YES	NO	NO	YES	87%	Tube/PAR/Down Light/Bulb
SY58542	Buck PFC,High Side Switch	SO8	600V	10W	NO	AC LINE	YES	NO	NO	YES	89%	Tube/PAR/Down Light/Bulb
SY58543/A	Buck PFC,High Side Switch	SO8	600V	10W	NO	AC LINE	YES	NO	NO	YES	85%	Tube/PAR/Down Light/Bulb
SY58544	Buck PFC,High Side Switch	SO8	600V	15W	NO	AC LINE	YES	NO	NO	YES	91%	Tube/PAR/Down Light/Bulb
SY58591	Buck PFC,Low Side Switch	SO8	600V	7.5W	NO	AC LINE	YES	NO	NO	YES	91%	Tube/PAR/Down Light/Bulb
SY58592	Buck PFC,Low Side Switch	SO8	600V	10W	NO	AC LINE	YES	NO	NO	YES	90%	Tube/PAR/Down Light/Bulb
SY58593/A	Buck PFC,Low Side Switch	SO8	600V	13.5	NO	AC LINE	YES	NO	NO	YES	89%	Tube/PAR/Down Light/Bulb
SY58594/A	Buck PFC,Low Side Switch	SO8	600V	16W	NO	AC LINE	YES	NO	NO	YES	91%	Tube/PAR/Down Light/Bulb

AC-DC Primary Side Controller

Power Number	Function	Package	Constant Output Voltage	Constant Output Voltage PSR	PFC	Opto-coupler	QR Mode	Green Mode
SY5011	Green Mode Flyback Controller With Primary Side CV/CC Control	SO8	YES	YES	YES	YES	YES	YES
SY5012	Green Mode Flyback Controller With Primary Side CV/CC Control	SOT23-6	YES	YES	YES	YES	YES	YES
SY5013	Green Mode Flyback PFC Controller With Primary side CC Limit and Opto-feedback for CV Regulation	SO8	YES	NO	NO	YES	YES	YES



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Power Number	Function	Vin(V)	Vsw, max(V)	Isw, max(A)	Fsw (MHz)	Vref (V)	Syn Switch Ronb (mΩ)	Main Switch Ron (mΩ)	Package	Special Function	Typical Applications
SY8702	Step Down	2.5~30	30	0.8	1	0.1	NA	200	SOT23-6	PWM Dimming	24V BUS Street Lamp,MR16
SY8703	Step Down	2.5~30	30	1.3	1	0.1	NA	200	SOT23-6	PWM Dimming	24V BUS Street Lamp,MR16
SY8006	Step Down	2.5~5.5	6	2.4	1.5	0.1	150	200	SOT23-5	Int ss/Comp	Portable Torch/Flash/Headling Lamp
SY8710	Step UP/Down	3~30	30	2	1	0.1	NA	200	SOT23-6	Analog Dimming	GPS, MID
SY8711	Step UP/Down	3~30	30	2	1	0.1	NA	200	SO8/E	Analog Dimming	GPS, MID

Power Number	Function	Package	Dimming	Vin Range	PFC	Isolation	Opto-coupler	QR Mode
SY5800A/D	Single Stage Flyback PFC Controller With Primary Side Control	SO8	NO	AC LINE	YES	YES	NO	YES
SY5801A	Single Stage Flyback PFC Controller With Primary Side Regulation and Traic dimming	SO8	Triac	AC LINE	NO	YES	NO	YES
SY5802/A	Single Stage Flyback PFC Controller With Primary Side Regulation and PWM/Analog dimming	SO8	PWM/Analog	AC LINE	YES	YES	NO	YES
SY5803	Single stage Buck-Boost PFC controller	SO8	NO	AC LINE	YES	NO	NO	YES
SY5804	Single Stage Floating Buck PFC Controller(Floating Switch)	SO8	NO	AC LINE	YES	NO	NO	YES
SY5804A/A1	Single Stage Buck PFC Controller(Floating Switch)	SO8	NO	AC LINE	YES	NO	NO	YES
SY5810/B/D	Single Stage Floating Buck PFC Controller with Primary Side Control	SOT23-6	NO	AC LINE	YES	YES	NO	YES
SY5813	Single Stage Buck-Boost PFC controller	SOT23-6	NO	AC LINE	YES	NO	NO	YES
SY5814	Single Stage Buck PFC Controller(Floating Switch)	SOT23-6	NO	AC LINE	YES	NO	NO	YES
SY5814A	Single Stage Buck PFC Controller(Grounded Switch)	SOT23-6	NO	AC LINE	YES	NO	NO	YES
SY5819	Single Stage Buck PFC Controller(Grounded Switch)	SOT23-6	NO	AC LINE	YES	NO	NO	YES