TLPS-12 Series single output LED driver

Dimension：137 × 30 × 20mm

Features：

- Constant voltage style power supply
- Universal AC input / Full range
- Input with ground wire(FG)
- Small volume，low weight，high efficiency
- Protections：short circuit/over load/over temp
- Cooling by free air convection
- Fully encapsulated with IP67 level
- 100% full load burn-in test
- 2 Years warranty

IP67 CE RoHS

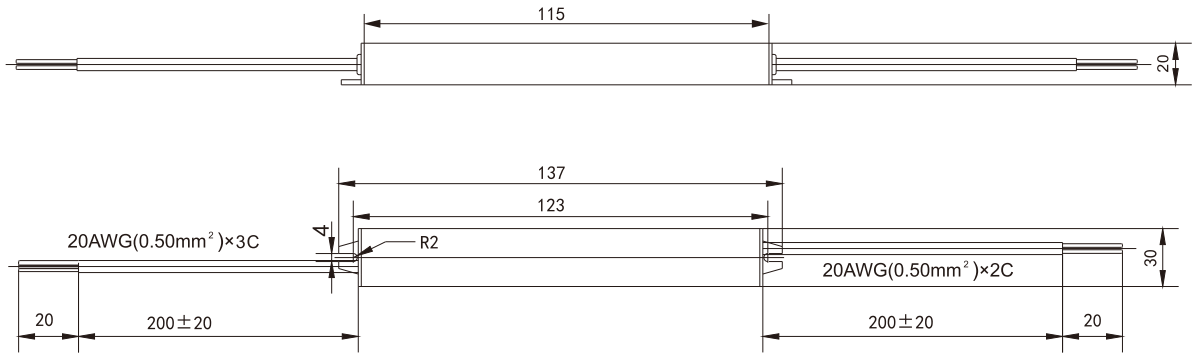
SPECIFICATION

Model		TLPS-12-12	TLPS-24-12	TLPS-36-12
Output	DC voltage	12V	24V	36V
	Voltage tolerance	±3%	±2%	±3%
	Rated current	1A	0.5A	0.33A
	Current range	0～1A	0～0.5A	0～0.33A
	Rated power	12W	12W	11.9W
	Ripple&noise	120mVp-p	150mVp-p	150mVp-p
	Setup，rise，hold up time	800ms,20ms,24ms/230VAC		
Input	Voltage range	90～264VAC 47～63Hz，135～373VDC		
	AC current	0.3A/115VAC 0.15A/230VAC		
	Efficiency	79%	81%	82%
	Inrush current	Cold start30A/230VAC		
	leakage current	＜0.5mA/240VAC		
Protection	Overload	Rated output power135%～175%Start overload protection		
		Protection type：hiccup mode，auto-recovery after fault condition is removed		
	Over temperature	When temperature of transistor inner node is over150℃±10℃,Start over temp protection		
		Protection mode：cutoff output，auto-recovery after temperature become normal		
Environment	Working temp，humidity	-20℃～+60℃;20%～90%RH(Please refer to “derating curve”)		
	Storage temp，humidity	-40℃～+85℃;10%～95%RH Non-condensing		
	Withstand vibration	10～500Hz，2G 10min./1Cycle，Period for 60min，Each axes		
Safety	Withstand voltage	I/P-O/P：1.5KVAC		
	Isolation resistance	I/P-O/P：100M Ohms/500VDC		
Fit standard	Safety standard,Protection level	Fit UL1012,TUV EN60950-1，IP67		
	EMC Standard	Fit EN55022，EN55024,CLASSA		
Others	Weight/Dimension	0.16kg 137*30*20（L*W*H）		
	Packing	0.16kg/100pcs/16kg/0.03m³/1.06CUFT		

Note: 1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25℃ of ambient temperature.
2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor.
3. Tolerance : includes set up tolerance, line regulation and load regulation.

Mechanical specification

Unit:mm

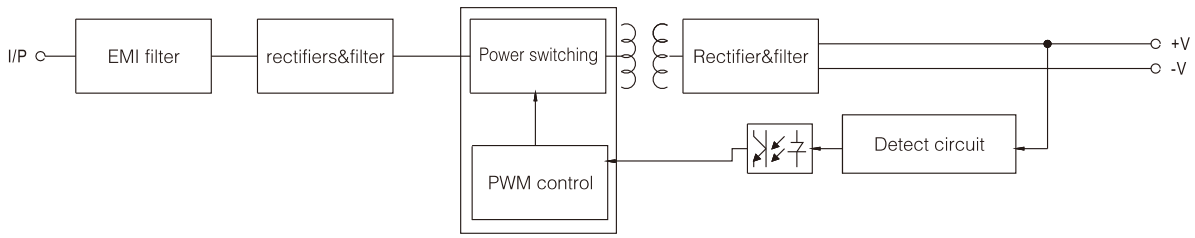


lead–out wire assignment

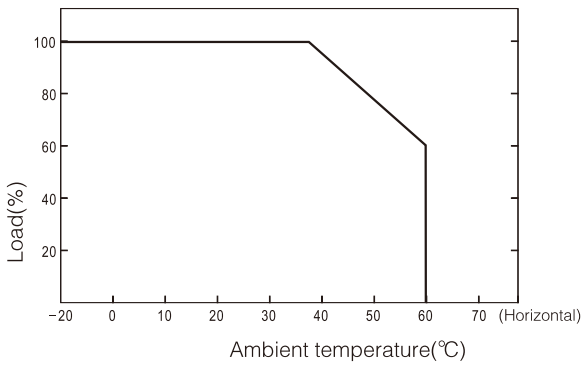
Input(Black three–core)		Output (Black two–core)	
Brown	AC/L	Red	DC OUTPUT +V
Blue	AC/N	Black	DC OUTPUT -V
Yellow–green	FG ⏚		

Block diagram

Frequency：60KHz



Derating curve



Static characteristic