TLPZ-75W Series single output switching power supply

Dimension：111×78×36mm

Features：

· AC input voltage range selected by switch

· Small volume，low weight，high efficiency

· Protections：short circuit/over load

· Cooling by free air convection

· LED indicator for power on

· 100% full load burn-in test

· 2 Years warranty

CE

SPECIFICATION

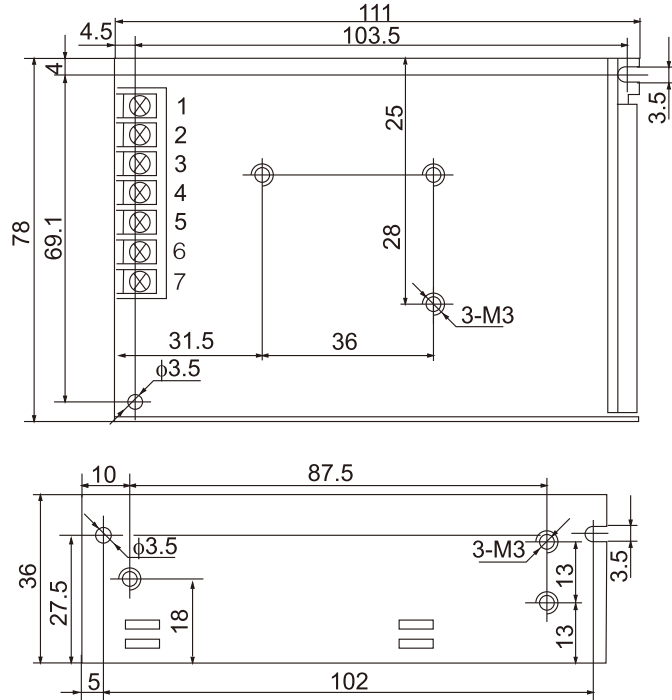|	Model	TLPZ-75-5	TLPZ-75-12	TLPZ-75-15	TLPZ-75-24
Output	DC voltage	5V	12V	15V	24V
	Voltage tolerance	± 1%	± 1%	± 1%	± 1%
	Rated current	10A	6.3A	5A	3.2A
	Current range	0～10A	0～6.3A	0～5A	0～3.2A
	Rated power	50W	76W	75W	77W
	Ripple&noise	80mVp-p	120mVp-p	120mVp-p	120mVp-p
	DC voltage ADJ. range	−9%～+10%	± 10%	± 10%	± 10%
	Setup，rise，hold up time	1000ms,30ms,20ms/230VAC			
Input	Voltage range	90~132VAC 170～264VAC 47～63Hz(Selected by switch)，235～373VDC			
	AC current	1.8A/115V 0.9A/230VAC			
	Efficiency	80%	82%	82%	84%
	Inrush current	Cold start 18A/115V 36A/230VAC			
	leakage current	＜1mA/240VAC			
Protection	Overload	Rated output power105%～135%Start overload protection			
		Protection type：hiccup mode，auto-recovery after fault condition is removed			
Environment	Working temp，humidity	−10℃～+60℃;20%～90%RH(Please refer to "derating curve")			
	Storage temp，humidity	−20℃～+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 I/P-FG：1.5KVAC O/P-FG：0.5KVAC			
	Isolation resistance	I/P-O/P：I/P-FG,O/P-FG：100M Ohms/500VDC			
Fit standard	Safety standard	Fit UL1012			
	EMC Standard	Fit EN55022，CLASSA			
Others	Dimension	0.28kg 111*78*36（L*W*H）			
	Weight	0.28kg/50pcs/15kg/0.96CUFT			

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.
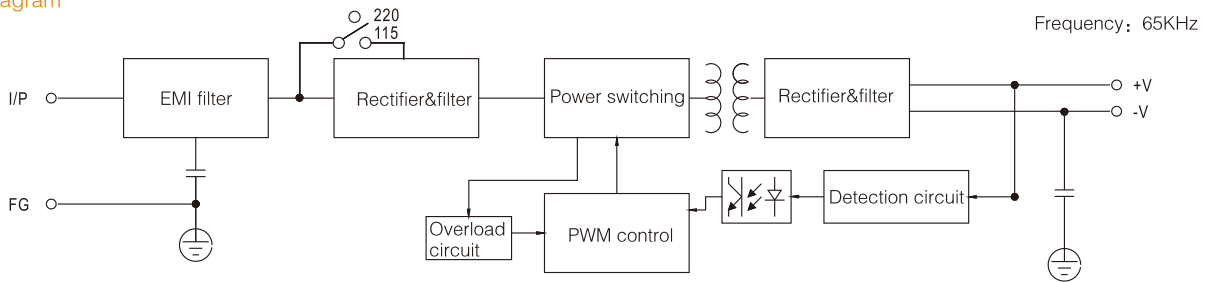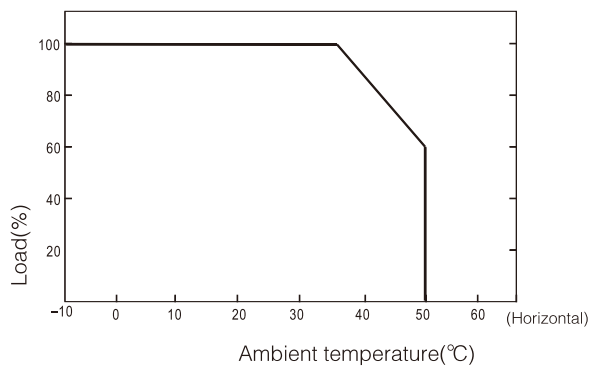
Mechanical specification

Unit:mm

Terminal Pin No.Assignment

Pin No.	Assignment	Pin No.	Assignment
1	AC/L	4	DC OUTPUT -V
2	AC/N	5	DC OUTPUT +V
3	FG ⏚		

Block diagram

Frequency：65KHz

I/P — EMI filter — Rectifier&filter — 220 115 — Power switching — Rectifier&filter — +V / -V

FG

Overload circuit — PWM control — Detection circuit

Derating curve

Load(%) vs Ambient temperature(℃) (Horizontal)

Static characteristic

Ta=25℃

Load(%) vs Input voltage(V)50Hz