



## LED POWER SUPPLY DATASHEET

### TP1023

### 12VDC 5A 60W Slimline

#### ·DESCRIPTION

Linear type LED drivers, high cost performance and meet SELV standard. Widely used in all kinds of advertising light boxes and board, neon lights and other applications. Can also be applied in cabinet furniture and linear luminaire field. Compliance to ERP directive, lifetime 30,000hrs. Slim design save much space for installation. Dimmable design meet the requirements for dimming of all kinds of linear light.



#### ·Input

Items	Conditions	Request	Note
Input voltage	Ta	AC180-264V	--
Input frequency		50/60Hz	--
Input current	25°C, rated input voltage, output with max. rated power	< 0.5A	--
Input power		< 75W	--
Efficiency		≥ 88%	--
Standby	25°C, rated input voltage, output without load	< 0.5W	average
Inrush current	25°C, rated input voltage	< 75A	peak
PF	25°C, rated input voltage, output max. rated power	≥ 0.9	--

#### ·Temperate and others

Item	Conditions	Request	Note
Operation temp.	--	-20-45°C	--
Relative humidity	--	45%-85%	--
Max. case temp.	--	80°C	--
Lifetime	Max. Ta, rated input voltage, output with max. rated power	30,000hr	--
Working noise	25°C, rated input voltage, output with rated power, mute box background noise < 35dB, pickup 10cm distance from products	yes	--

#### ·Protection

Items	Conditions	Request	Note
Open circuit	Ta, rated input voltage, no load	--	--
Over load	Ta, 0.94-1.06 times of input voltage, twice of rated power	yes	--
Short circuit	Ta, 0.94-1.06 times of input voltage	yes	--
Over temperature	Ta, 0.94-1.06 times of input voltage, temperature detected point more than 115 degree	--	--
Over voltage	Ta, 0.94-1.06 times of input voltage, output voltage is 1.5 times of rated one	yes	--
Auto recovery	Over load, short circuit over voltage revocation	yes	--
Latch off	over voltage re-start after cut off	yes	--

#### ·Output

Items	Conditions	Request	Note
Startup time	25°C, rated input voltage, output with max. rated	< 0.5S	--
Output voltage and precision	Ta, rated input voltage, output with rated power	12V±5%	--
Output current range	Ta, rated input voltage	0-5A	60W
Output voltage wave	25°C, rated input voltage, output with max. rated	500mV	Vp-p
Output overload	25°C, rated input voltage, output with 2 times LED load	yes	--
Output current and precision	Ta, rated input voltage, output with rated power	--	--
Rated output voltage range	Ta, rated input voltage,	--	--
Output current wave	25°C, rated input voltage, output with max. rated	--	Ip-p
Dimming mode	--	--	--
Dimming range	--	--	--

#### ·Mechanical, mounting

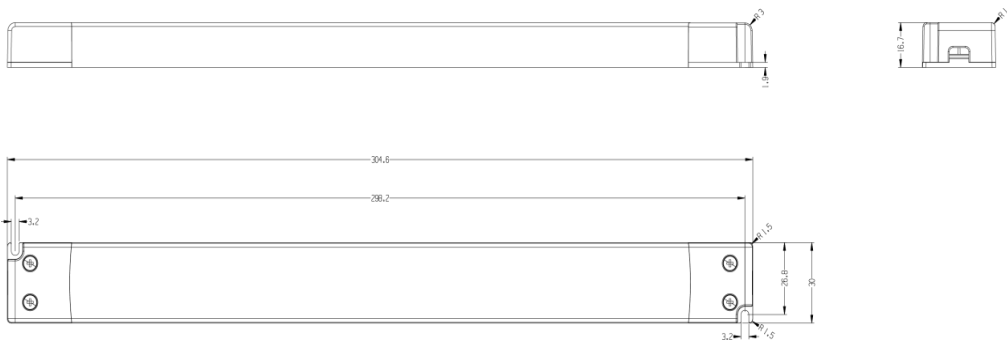
Items	Conditions
Case material and size	Plastic case L304.6*W30*H16.7MM
Mounting ways	Independent
Insulation type	Class II
IP grade	IP20
Input cables dimension	H03VVH2-F 2X0.75mm <sup>2</sup>
Output cables dimension	H03VVH2-F 2X0.75mm <sup>2</sup>
Output cables length	Max 2M

#### ·Standard

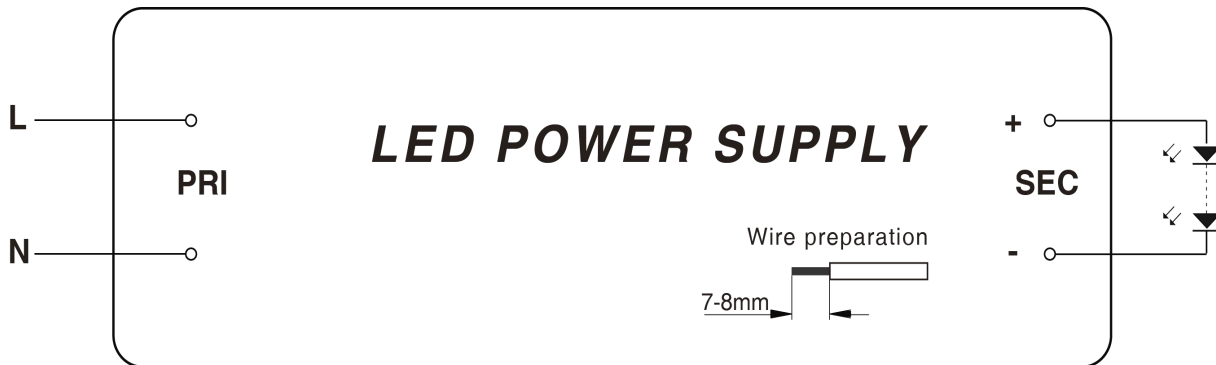
Items	Conditions
Safety	IEC61347-1、IEC61347-2-13
Harmonic	EN61000-3-2 Class C
EMI	EN55015
EMS	EN61000-4-2、3、4、5、6 EN61547



### Dimensions(mm)



### Wiring Diagram





AT-No: TP1023  
LED POWER SUPPLY  
Prim: 200-240VAC, 50/60Hz, λ ≥ 0.9  
Sec: 12VDC Max. 5A Max. 60W  
t: 80°C ta: 45°C Made in P.R.C

• 10  
TIGER Power Supplies  
SELV CE  
SEC 1.100K