

# TGR-60W-12V-W



## IP67 WATERPROOF 12V 5A 60W LED DRIVER POWER SUPPLY

Super slim IP67 waterproof LED drivers providing a constant voltage 12vdc regulated output at up to 5A 60W.No minimum load. can be used for any power rating up to 60W. SELV.Open circuit, short circuit,overload and auto recovery.Class II,lifetime 30,000hrs.



### ·Input

Items	Conditions	Request	Note
Input voltage	Ta	220-240Vac	--
Input frequency		50/60Hz	--
Input current	25°C ,rated input voltage, output with max. rated power	<0.3A	--
Input power		<62W	--
Efficiency		≥85%	--
Standby		25°C ,rated input voltage, output without load	<0.5W
Inrush current	25°C ,rated input voltage	<60A	peak
PF	25°C ,rated input voltage, output max. rated power	≥0.90	--

### ·Temperate and others

Item	Conditions	Request	Note
Operation temp.	--	-20-45°C	--
Relative humidity	--	45%-85%	--
Max. case temp.	--	85°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, 1.5 times of rated power	yes	--
Short circuit	Ta ,0.94-1.06 times of input voltage	yes	--
			--
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 recovation	yes	--
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### ·Output

Items	Conditions	Request	Note
Startup time	25°C , rated input voltage,output with max. rated power	<0.5s	--
Output voltage and precision	Ta, rated input voltage, output with rated power	12V±5%	--
Output current range	Ta ,rated input voltage	0-5.0A	
Output voltage wave	25°C , rated input voltage,output with max. rated power	120mV	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 power	--	Ip-p
Dimming mode	--	--	--
Dimming range	--	--	--

### ·Mechanical, mounting

Items	Conditions
Case material and size	Plastic case 163mm × 43mm × 33mm
Mounting ways	Independent
Insulation type	Class II
IP grade	IP67
Input cables dimension	20CM 2x0.75mm <sup>2</sup>
Output cables dimension	20CM 16AWG
Termination	Bare end stripped & tinned

### ·Standard

Items	Conditions
Safety	IEC61347-1, IEC61347-2-13
Harmonic	IEC61000-3-2
EMI	IEC55015
EMS	IEC61547

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