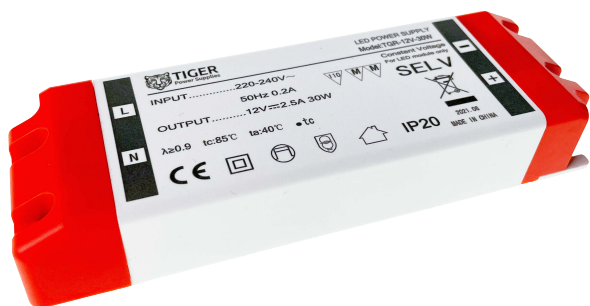




# TGR-12V-30W



## 12V 2.5A 30W LONG LIFE LED DRIVER

Super slim LED driver providing a constant voltage 12vdc regulated output at up to 2.5A 30W.No minimum load.. can be used for any power rating up to 30W. 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     |                                                         | <32W       | --      |
| Efficiency      |                                                         | ≥85%       | --      |
| Standby         |                                                         | <0.5W      | average |
| 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     | --   |
|               |                                                                                |         | --   |

### ·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                                 | 0-2.5A  |      |
| 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 147mm × 48mm × 24mm |
| Mounting ways          | Independent                      |
| Insulation type        | Class II                         |
| IP grade               | IP20                             |
| Input connection       | screw terminals                  |
| Output connection      | screw terminals                  |
|                        |                                  |

### ·Standard

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

**TIGER POWER PRODUCTS – QUALITY & RELIABILITY**