

## HW03-700G30

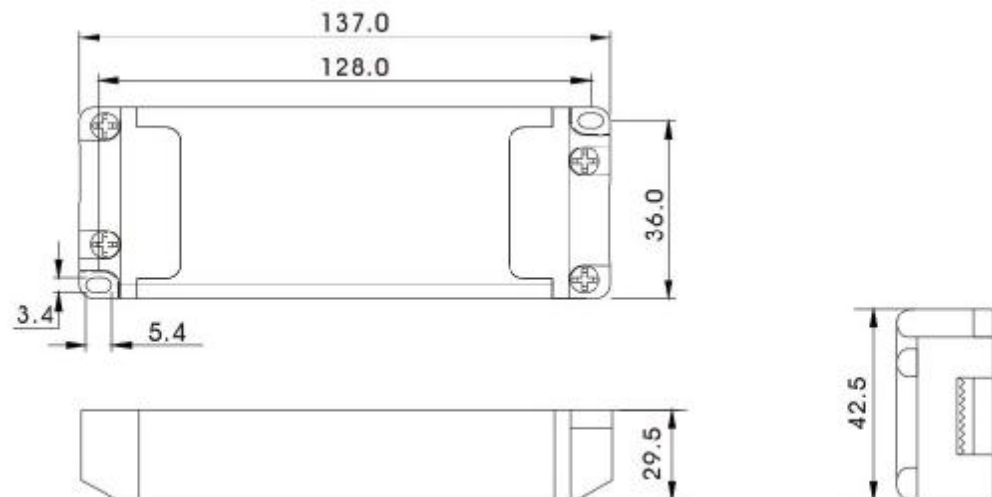


### Key Features

Long lasting and high reliability,  
Extra small compact housing,  
Suitable for use with downlights,  
Spotlights, and other indoor LED applications

### Approval marks

    **SELV equivalent.**



### Safety and EMC standard

Safety according to  
EN 61347-1, 61347-2-3, 61347-2-13, 62493  
RI suppression according to EN 55015:2007+A1:2007/CDN  
Line harmonics according to EN 61000-3-2  
Immunity according to EN 61547

Electrical data

|                 | Item                               | Value/Unit /Remarks                                                   |
|-----------------|------------------------------------|-----------------------------------------------------------------------|
| INPUT           | Nominal voltage                    | 100 – 240 VAC                                                         |
|                 | Nominal frequency                  | 50 - 60 Hz                                                            |
|                 | AC voltage range                   | 90 – 264 VAC Permitted voltage range                                  |
|                 | DC voltage range                   | NA V                                                                  |
|                 | Maximum voltage                    | 275 V 2hrs                                                            |
|                 | Nominal current                    | 160mA 230V @ 30W load                                                 |
|                 | Total Harmonic Distortion (THD)    | < 20 % Full load, 230 V, 50 Hz                                        |
|                 | Power factor                       | 0.9 Full load, 230 V, 50 Hz                                           |
|                 | Efficiency                         | 86 % Full load, 230 V, 50 Hz, typical                                 |
|                 | No-load power                      | < 0.6 W 230V, typical                                                 |
|                 | Stand-by power                     | NA W                                                                  |
|                 | Power loss                         | 4W at 230V input @ 30W load max.                                      |
|                 | Input power                        | 34W at 230V input @ 30W load max.                                     |
|                 | Protection class                   | II Suitable for class I <sup>1)</sup> and class II luminaires         |
|                 | Inrush current                     | < 5 A twidth = 100 µs typical (measured at 50% Ipeak)                 |
| OUTPUT          | Nominal voltage range              | 25-42VDC                                                              |
|                 | Maximum voltage                    | 52VDC Open circuit                                                    |
|                 | Nominal current range              | 700 Ma                                                                |
|                 | Current accuracy                   | +/- 5 %                                                               |
|                 | Current ripple                     | 10 % typical                                                          |
|                 | Nominal power range                | 18 – 30W Partial Load.                                                |
|                 | Maximum power                      | 30 W Ta ≤ 55°C,                                                       |
|                 | Galvanic isolation                 | SELV-equivalent 3,75 kVrms . Output to earth - Touch current < 0.7 mA |
| ENVIRON<br>MENT | Ambient temperature range ta       | -20 ...+55 °C Refer to Table 1 for details                            |
|                 | Maximum case temperature tc        | 85 °C Measured on tc point indicated of the product label.            |
|                 | Max. Case temp. in fault condition | 110 °C                                                                |
|                 | Storage temperature range          | -25 ...+75 °C Cool down before operating                              |
|                 | Relative humidity                  | 5 ... 81 % Not condensing                                             |
|                 | Surge transient protection         | 1   1 kV L/N   LN/PE acc. IEC 61000-3-2 (ANSI C62.41 Cat.A ...)       |
|                 | Environmental rating               | Indoor                                                                |
|                 | IP rating                          | IP 20                                                                 |
|                 | Mains switching cycles             | > 100'000                                                             |
|                 | Expected lifetime                  | ≥50'000 hrs ta = 50°C , tc = 85°C, 10% failure rate                   |

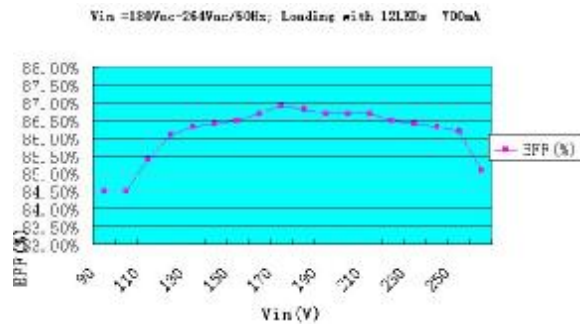
|            |                          |                                                                                                                |
|------------|--------------------------|----------------------------------------------------------------------------------------------------------------|
| Protection | Overheating protection   | yes, automatic reversible                                                                                      |
|            | Overload protection      | yes, automatic reversible                                                                                      |
|            | Short-circuit protection | yes, automatic reversible                                                                                      |
|            | Hot plug-in protection   | No, Hot plug-in or secondary switching of LEDs is not permitted and may cause a very high current to the LEDs. |
| DIMENSION  | Dimensions               |                                                                                                                |

# LED Power Supply

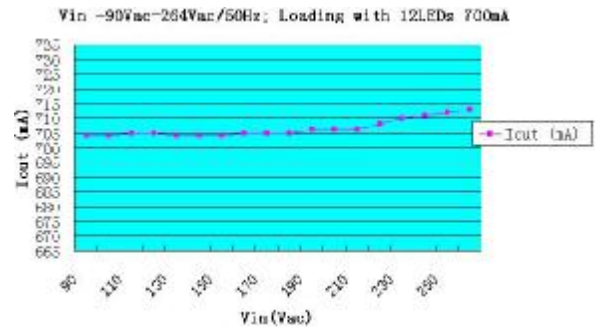
## Product Data Sheet

|        |                                 |                           |
|--------|---------------------------------|---------------------------|
| WEIGHT | Weight                          |                           |
|        | Max. cable length               | 2m                        |
|        | Cable crosssection, input side  | 0.5...1.5 mm <sup>2</sup> |
|        | Cable crosssection, output side | 0.2...1.5 mm <sup>2</sup> |

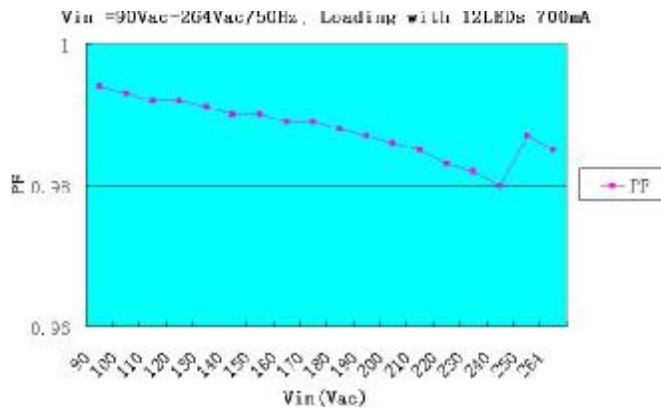
### Variable Input Vs Efficiency



### Variable Input Vs Iout Measurement



### Variable Input Vs PF Measurement



### Disclaimer

The information in this data sheet subject to change without notice.

Always make sure to use the most recent release, or consult with us before your final selection.