

## LED Power Supply Constant Current Driver

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



### Safety and EMC standard

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

### Approval marks



Item	Value   Unit   Remark
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#### 1. Input

Nominal voltage	220 – 240 VAC
Nominal frequency	50 - 60 Hz
AC voltage range	200 – 264 VAC Permitted voltage range
DC voltage range	NA V
Maximum voltage	264V
Nominal current	200mA 230V @ 30W load
Total Harmonic Distortion (THD)	PASS
Power factor	0.9 Full load, 230 V, 50 Hz
Efficiency	86% Full load, 230 V, 50 Hz, typical
Stand-by power	NA
Power loss	4.7 W at 230V input @ 30W load max.
Input power	34.7W at 230V input @ 30W load max.
Protection class	II
Inrush current	< 5 A twidth = 100 µs typical (measured at 50% Ipeak)

#### 2. Output

Nominal voltage range	36-60VDC
Maximum voltage	70VDC Open circuit
Nominal current range	500mA
Current accuracy	± 5 %
Nominal power range	18 – 30W Partial Load.
Maximum power	30 W Ta ≤ 50°C,
Safety isolation	SELV-equivalent 3kVrms . Touch current < 0.7 mA
Dimming range	10-100%

## HW03-500G30SDA

### 3. Environment

Ambient temperature range $t_a$	-20 ... +50°C
Maximum case temperature $t_c$	85 °C Measured on $t_c$ 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 ... 80 % Not condensing
Surge transient protection	1   1kV L/N acc. IEC 61000-3-2 (ANSI C62.41 Cat.A ...)
Environmental rating	Indoor
IP rating	IP 20
Mains switching cycles	> 50'000
Expected lifetime	≥30'000 hrs @ $t_a = 50^\circ\text{C}$ , $t_c = 85^\circ\text{C}$ , 10% failure rate
	≥50'000 hrs @ $t_a = 35^\circ\text{C}$ , $t_c = 85^\circ\text{C}$ , 10% failure rate

### Switch function:

1.Switch on □100% brightness;  
 2.Switch off and then switch on within 3s □50% brightness; 3.Switch off and then switch on within 3s □20% brightness;  
 \*\*\*Switch on after 5s,the chosen brightness is fixed;  
 \*\*\*has memory function,if LED Switch off for more than 5s,the brightness is fixed brightness when Switch on.

### 4. 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.

### 5. Dimensions | Weight

Dimensions	137*42.5*29.5mm
Weight	135g
Max. cable length	1.2m
Cable crosssection, input side	0.5...1.5 mm <sup>2</sup>
Cable crosssection, output side	0.2...1.5 mm <sup>2</sup>

