

# LED Driver

3419019 PW-60-xx

## Features



- Independent design with plastic housing design
- Constant voltage output
- Analogue flicker-free
- Built-in active PFC function
- Primary and secondary sides come with leads
- Protections: opencircuit, shortcircuit, overload, overtemperature
- Differential mode 2kV and common mode 4kV surge immunity
- Suitable for protection class I & II luminaires
- SELV equivalent
- Protection class II
- IP67 design



**CB CE**

## Selection Guide

Model No.	Nominal Voltage (V)	Nominal Current (A)	Power Factor (λ)	THD Full load (%)	Max. Output (W)	Output Current (A)	Output Voltage (V)	No Load Voltage (V)	Efficiency Full Load (%)
PW-60-12	220-240	0.35	0.95	10	60	0-5	12	N/A	88
PW-60-24	220-240	0.35	0.95	10	60	0-2.5	24	N/A	87
PW-60-48	220-240	0.35	0.95	10	60	0-1.25	48	N/A	88

## Input Parameters

Parameter	Condition	Min.	Typ.	Max.																				
Input Voltage Range	AC Input	198VAC	--	264VAC																				
	DC Input	176VDC	--	280VDC																				
Rated Input Frequency	AC Input	--	50/60Hz	--																				
No-load Power Consumption		--	--	0.5W																				
Inrush Current	Cold Start@230V	50A/200us																						
Max.units Per Circuit Breaker	<table border="1"> <thead> <tr> <th>Circuit Breaker</th> <th colspan="4">Circuit Breaker Current</th> </tr> <tr> <th>Typ.</th> <th>10A</th> <th>13A</th> <th>16A</th> <th>20A</th> </tr> </thead> <tbody> <tr> <td>B</td> <td>5</td> <td>6</td> <td>8</td> <td>10</td> </tr> <tr> <td>C</td> <td>11</td> <td>14</td> <td>17</td> <td>22</td> </tr> </tbody> </table>				Circuit Breaker	Circuit Breaker Current				Typ.	10A	13A	16A	20A	B	5	6	8	10	C	11	14	17	22
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## Output Parameters

Parameter	Condition	Min.	Typ.	Max.
Output Accuracy	Full Load@230V	--	±5%	--
Ripple & Noise	Low Frequency < 120Hz, Full Load@230VAC	--	--	3%
Pst LM		--	--	1
SVM		--	--	0.4

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Galvanic Isolation	SELV
Short-Circuit Protection (SCP)	Auto-Recovery If Fault Is Removed
Over-Temperature Protection (OTP)	Auto-Recovery If Fault Is Removed
Over-Voltage Protection (OVP)	Auto-Recovery If Fault Is Removed
Over-Current Protection (OCP)	Auto-Recovery If Fault Is Removed

## General Parameters

Parameter	Condition	Value
Ambient Temperature Range $t_a$		-40...+50°C
Maximum Case Temperature $t_c$	Measured on $t_c$ point indicated of the product label	85°C
Max.Case Temp.In Fault Condition		110°C
Storage Temperature Range		-40...+70°C
Relative Humidity	Non Condensing	5...85%
Withstand Voltage	I/P-O/P	3.75kVAC, I leakage <5mA, 60s
Surge Transient Protection	L-N, L/N-PE	2kV, 4kV
Environmental Rating		Outdoor
IP Rating		IP67
Mains Switching Cycles		> 100,000
Expected Lifetime	$t_{cmax}=85^\circ\text{C}$ , 0.2%/1000h failure rate	50,000h

## Physical Parameters

Housing Material	Plastic
Type of connection	Cable
Dimensions (LxWxH)	155x45x32mm
Mounting hole spacing	145x35mm
Weight	400 ± 20g

## Standards

Safety Standards	EN 61347-1, EN 61347-2-13
Performance	EN 62384
EMC Standards	EN 55015, EN 61000-3-2, EN 61000-3-3, EN 61547

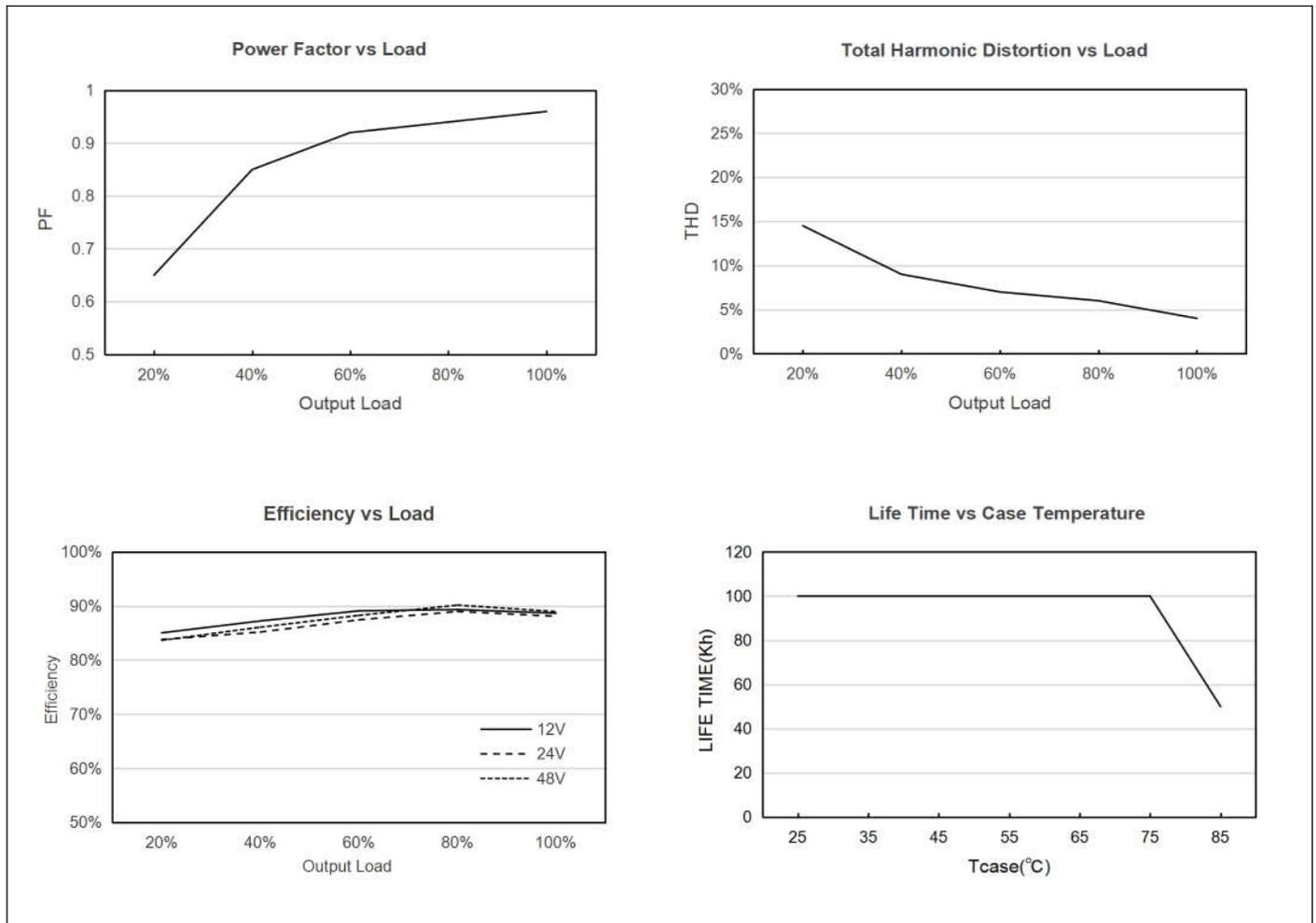
\*ALL parameters NOT specially mentioned are measured at 230VAC input, rated current and 25°C of ambient temperature.

\*The equipment cannot be abutted against or covered by normally flammable materials or used in installations where building insulation or debris is, or may be, present in normal use.

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## Product Characteristic Curve

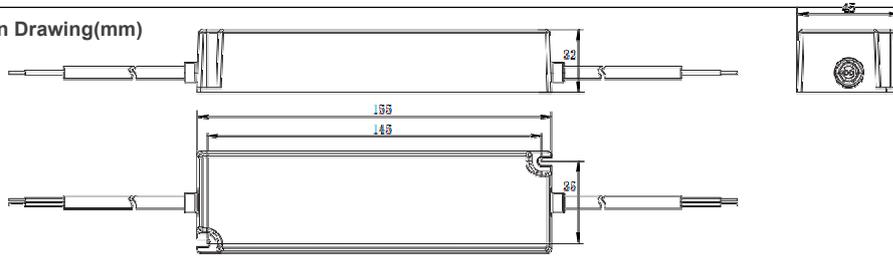


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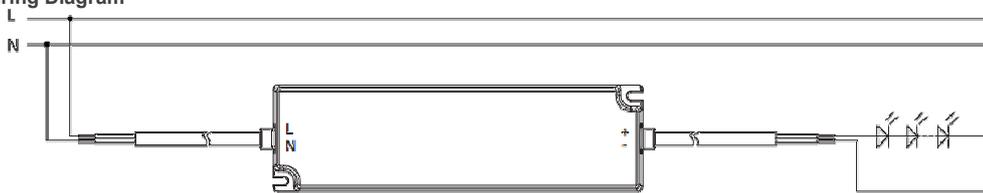
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## Appearance of Size

Dimension Drawing(mm)



Wiring Diagram



**PRI**

Wire: VDE H05RN-F 2x1.0mm<sup>2</sup>

Length: 300±10mm

**SEC**

Wire: UL SOJW 2x18AWG

Length: 300±10mm

Hot plug-in or secondary switching of LEDs is not permitted and may cause a very high current to the LEDs.