



Rev B

Size: 6.69 in x 2.48 in x 1.57in (170mm x 63mm x 40mm)

OPTIONS

Output Current

Optional Timer Dimming Function

FEATURES

Active PFC

Design

Built-In 10KV lightning surge protection (EN6100-4-5)
90~305VAC Full Range Input

Aluminum Case (IP65/IP67) Waterproof

• Dual Mode Over Temperature Thermal

Output Range up to 200VDC

- Output Voltage Automatic Tracing & Fixing Function
- Built-In 3 in 1 Output Current Dimming Function (Type B)
- Optional Timer Dimming Function
- Class 2 Power Unit/ Passes LPS
- Long Lasting Lifetime
- UL/CB/CCC/CE/PSE Approvals
- Outdoor LED Luminary Rugged Driver Solutions
- 2 Year Warranty

APPLICATIONS

Outdoor Lighting

DESCRIPTION

The PSMDC060 series of AC/DC LED driver power supplies offers up to 70 watts of output power in a 6.69" x 2.76" x 1.57" case. This series consists of various output voltages with a 90~305VAC input voltage range. These series are protected against short circuit, over voltage, and over temperature conditions. The PSMDC060 series has an IP65/IP67 aluminum case, waterproof design and is useful in outdoor lighting scenarios. All models have UL/CB/CCC/CE/PSE safety approvals and a 2 year warranty.

MODEL SELECTION TABLE									
Model Number ⁽¹⁾	Input Voltage Range ⁽²⁾	Rated Current	Ripple & Noise ⁽³⁾	Current Adjustment Range ⁽⁴⁾	Output Power	Output Voltage	Output Voltage Max ⁽⁵⁾	Efficiency ⁽⁶⁾	
PSMDC-060-0350		350mA	0.5Vp-p	100~200V	70W	100~200V	213V	91%	
PSMDC-060-0700		700mA	0.2Vp-p	50~100V	70W	50~100V	104V	91%	
PSMDC-060-1050	90~305VAC	1050mA	0.2Vp-p	35~70V	70W	35~70V	74V	91%	
PSMDC-060-1400	90~303VAC	1400mA	0.2Vp-p	25~49V	68W	25~49V	52V	90%	
PSMDC-060-1750		1750mA	0.2Vp-p	18~35V	60W	18~35V	42V	90%	
PSMDC-060-2280		2280mA	0.2Vp-p	14~27V	60W	14~27V	32V	89.5%	



SPECIFICATIONS

SPECIFICATION TEST CONDITIONS Min Typ Max Unit Input Voltage Range Input Voltage Range Input Voltage Range Wewer Factor ¹⁷ 90 308VAC 47 VAC 47 VAC 47 <th>All specifications</th> <th>s are based on 25°C, Nominal Input Voltage, and Maximum Output Curre We reserve the right to change specifications based on technological a</th> <th></th> <th>therwise not</th> <th>ed.</th> <th></th>	All specifications	s are based on 25°C, Nominal Input Voltage, and Maximum Output Curre We reserve the right to change specifications based on technological a		therwise not	ed.	
UNPUT SPECIFICATIONS VAC 90 305VAC VAC Input Frequency 47 -0.98 - - Power Factor ⁷¹ 200VAC -0.98 - - Total Harmonic Distortion @230VAC @Full Load -0.94 - - Total Harmonic Distortion @230VAC @Full Load -0.75 - % Insuf Current 220VAC @Full Load -0.76 - - A A Leadage Current @0.75 - 0.4 A A A Line Regulation - - 0.5 + 5 % Line Regulation -	SPECIFICATION			Typ	Max	Unit
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Life Time 230VAC, 100% Load, @ T-Case 70°C 50,000 Hrs Lightning Surge 10KV (L/N-PE) & 5KV(L-N)/1.2*50µ sec PHYSICAL SPECIFICATIONS 1.61 lbs (730g) Weight 6.69 x 2.48 x 1.57in (170 x 63 x 40mm) Dimensions (L x W x H) 6.69 x 2.48 x 1.57in (170 x 63 x 40mm) Case Material Aluminum SAFETY & EMC CHARACTERISTICS Safety Standards UL 8750 ⁽⁹⁾ , EN 61347-1, EN 61347-2-13, GB 19510.1, GB 19510.14 EMI EN 55015, EN 61000-3-2, EN 61000-3-3 FCC Part18 GB 17743 EN 61547 EN 61547						
Life Time 230VAC, 100% Load, @ T-Case 70°C 50,000 Hrs Lightning Surge 10KV (L/N-PE) & 5KV(L-N)/1.2*50µ sec PHYSICAL SPECIFICATIONS 1.61 lbs (730g) Weight 6.69 x 2.48 x 1.57in (170 x 63 x 40mm) Dimensions (L x W x H) 6.69 x 2.48 x 1.57in (170 x 63 x 40mm) Case Material Aluminum SAFETY & EMC CHARACTERISTICS Safety Standards UL 8750 ⁽⁹⁾ , EN 61347-1, EN 61347-2-13, GB 19510.1, GB 19510.14 EMI EN 55015, EN 61000-3-2, EN 61000-3-3 FCC Part18 GB 17743 EN 61547 EN 61547	Efficiency			See	Table	
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SAFETY & EMC CHARACTERISTICS Safety Standards UL 8750 ⁽⁹⁾ , EN 61347-1, EN 61347-2-13, GB 19510.1, GB 19510.14 EMI EN 55015, EN 61000-3-2, EN61000-3-3 FCC Part18 CNS 14115 GB 17743 EMI CNS 14115 GB 17743	. , ,					
Safety Standards UL 8750 ⁽⁹⁾ , EN 61347-1, EN 61347-2-13, GB 19510.1, GB 19510.14 EMI EN 55015, EN 61000-3-2, EN61000-3-3 FCC Part18 CNS 14115 GB 17743 EMI EN 55015, EN 61000-3-2, EN61000-3-3 FCC Part18 CNS 14115 GB 17743				Alum	innum	
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GB 17625.1						

Rev B

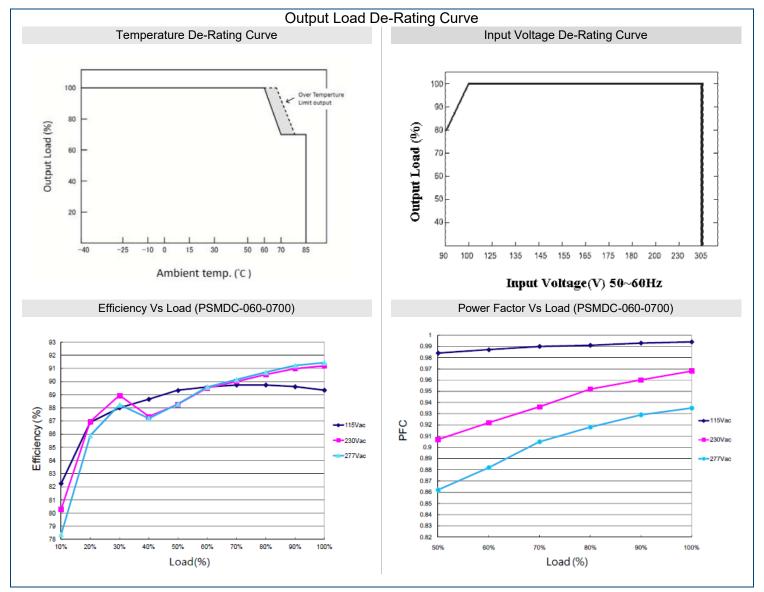
NOTES

- PSMDC-060-XXX: Type A: IP65 Grade, Output Current Adjustable by Internal Variable Reisitor (1)
 - Type B: IP67 Grade, Output Current Dimming by 0~10V/10V PWM signal/resistor
- For Input Voltage Range, please refer to "Input Voltage De-Rating Curve" Chart (2) (3)
- Ripple current is measured at 20MHz of bandwidth. The measured terminal is paralleled with a 22uF E-cap and a 0.1uF ceramic cap.

Rev B

- (4) For Type A Only
- (5) Please refer to "LED Driving Output Mode" Chart
- For efficiency test conditions, please refer to "Efficiency Vs Load" Chart (6)
- Please refer to "PFC Vs Load Curve" Chart (7)
- Please refer to "Temperature De-Rating Curve" Chart (8)
- This product is Listed to applicable standards and requirements by UL. (9)
- ue to advances in technology, specifications subject to change without notice.

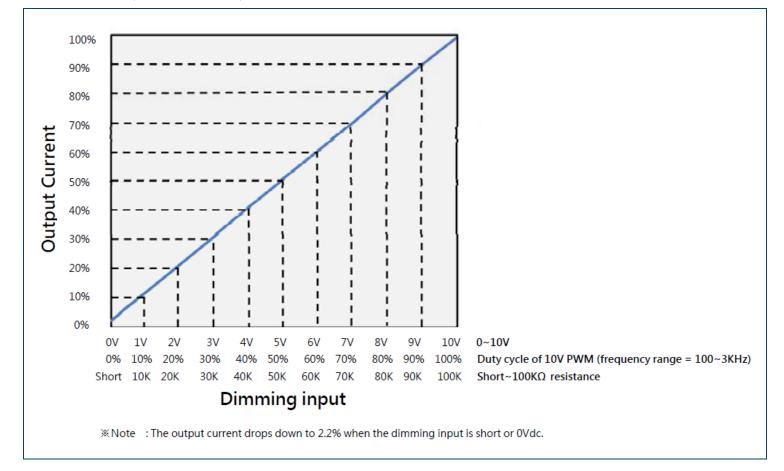
DERATING CURVES





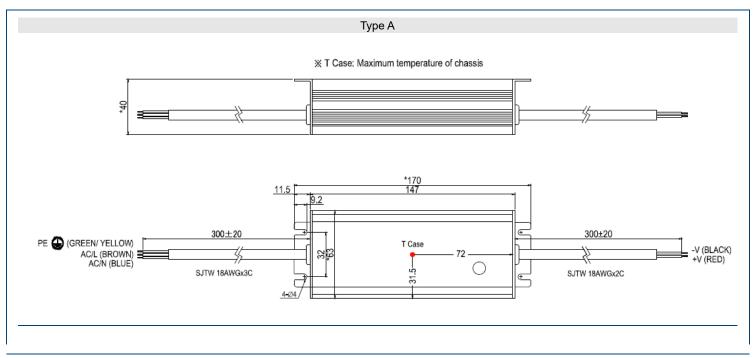
PSMDC060 SERIES 60~70W LED Driver AC/DC Single Output Series





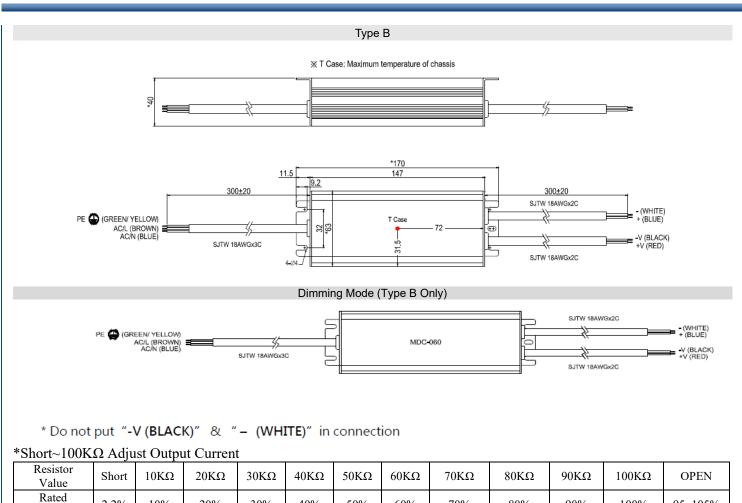
Rev B

MECHANICAL DRAWINGS





PSMDC060 SERIES 60~70W LED Driver AC/DC Single Output Series



*0~10VDC Adjust Output Current

2.2%

0°10 VDC Auj	usi Ouipu	n Current										
VDC	0V	1V	2V	3V	4V	5V	6V	7V	8V	9V	10V	OPEN
Rated Current Rate	2.2%	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	95~105%

60%

70%

80%

90%

100%

95~105%

50%

*10 V PWM Adjust Output Current; Frequency Range 100Hz~3KHz

10%

20%

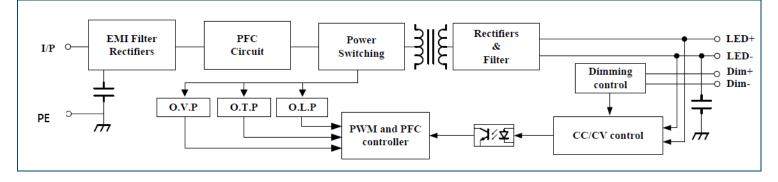
30%

40%

10 11 11111	<u>j</u>		, i requeene)	oone on							
Duty	0%	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	OPEN
Rated Current Rate	2.2%	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	95~105%

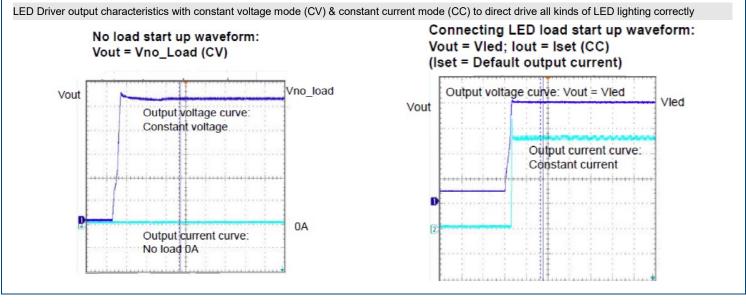
FUNCTION BLOCK -

Current Rate





LED DRIVING OUTPUT MODE



Rev B

COMPANY INFORMATION

Wall Industries, Inc. has created custom and modified units for over 50 years. Our in-house research and development engineers will provide a solution that exceeds your performance requirements on-time and on budget. Our ISO9001: 2015 certification is just one example of our commitment to producing a high quality, well-documented product for our customers.

Our past projects demonstrate our commitment to you, our customer. Wall Industries, Inc. has a reputation for working closely with its customers to ensure each solution meets or exceeds form, fit and function requirements. We will continue to provide ongoing support for your project above and beyond the design and production phases. Give us a call today to discuss your future projects.

Contact Wall Industries for further information:

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