



SPECIFICATIONS					
All specifications are based on 25°C, Nominal Input Voltage, and Maximum Output Current unless otherwise noted. We reserve the right to change specifications based on technological advances.					
SPECIFICATION	TEST CONDITIONS	Min	Typ	Max	Unit
<b>INPUT SPECIFICATIONS</b>					
Input Voltage Range		90		305VAC	VAC
Input Frequency		47		63	Hz
Power Factor <sup>(7)</sup>	115VAC		>0.98		
	230VAC		>0.96		
	264VAC, @ Full Load		>0.94		
Total Harmonic Distortion	@230VAC/ 50Hz, @Full Load		<20		%
Input Current	115VAC		0.75		A
	230VAC		0.4		
	277VAC		0.35		
Inrush Current	@230VAC, Cold Start		60		A peak
Leakage Current	277VAC		<0.75		mA
<b>OUTPUT SPECIFICATIONS</b>					
Output Voltage		See Table			
Output Current Tolerance		-5		+5	%
Line Regulation		-1		+1	%
Turn-On Time	@115VAC			1.5	S
	@230VAC, @Full Load		0.5		
Hold-Up Time	115VAC, @Full Load	12			mS
Output Power		See Table			
Ripple & Noise <sup>(2)</sup>		See Table			
Output Ripple Current		-5		+5	%
<b>PROTECTION</b>					
Short Circuit Protection		Auto Recovery or Power Reset			
Over Voltage Protection		Power Reset			
Over Temperature Protection <sup>(8)</sup>	Auto Recovery	75	85	95	°C
Over Temperature De-Rated <sup>(8)</sup>	Over 70°C, Fixed 75% load output				
<b>ENVIRONMENTAL SPECIFICATIONS</b>					
Operating Temperature		-40		70	°C
Storage Temperature		-40		85	°C
Operating Humidity	Non-Condensing	10		95	%RH
Storage Humidity		10		95	%RH
Vibration	IEC 68-2-2-1995/CNS-3629-C6016/GB/T 2423.10-2008; 5-500Hz, 1.0G, 1 Oct/min, 2 Cycle X, Y, Z, 75 Minutes				
MTBF	MIL-HDBK02175 (25°C)	350			Khrs
Hi-Pot	I/P-O/P		3.75		KVAC
	I/P-PE		2		
	O/P-PE		0.5		
Insulation Resistance	I/P-O/P, I/P-PE, O/P-PE: >100MΩ/ 500VDC/ 25°C/ 70%RH				
<b>GENERAL SPECIFICATIONS</b>					
Efficiency		See Table			
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				
<b>PHYSICAL SPECIFICATIONS</b>					
Weight		1.61 lbs (730g)			
Dimensions (L x W x H)		6.69 x 2.48 x 1.57in (170 x 63 x 40mm)			
Case Material		Aluminum			
<b>SAFETY &amp; EMC CHARACTERISTICS</b>					
Safety Standards	UL 8750 <sup>(9)</sup> , EN 61347-1, EN 61347-2-13, GB 19510.1, GB 19510.14 EN 55015, EN 61000-3-2, EN61000-3-3				
EMI	FCC Part18 CNS 14115 GB 17743				
EMS	EN 61547 EN 61000 (4-2, 4-3, 4-4, 4-5, 4-6, 4-8, 4-11) GB 17625.1				

**NOTES**

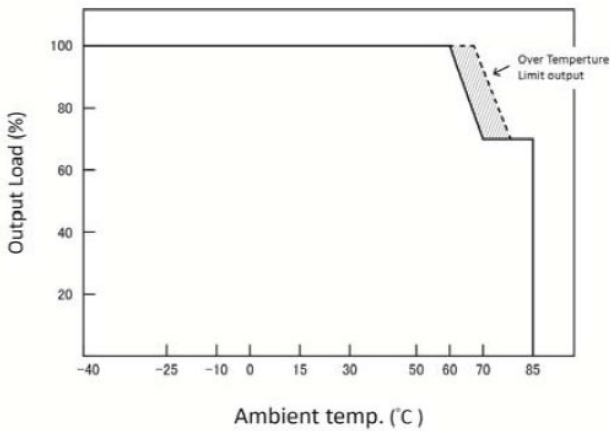
- (1) PSMDC-060-XXX: Type A: IP65 Grade, Output Current Adjustable by Internal Variable Resistor  
Type B: IP67 Grade, Output Current Dimming by 0~10V/10V PWM signal/resistor
- (2) For Input Voltage Range, please refer to "Input Voltage De-Rating Curve" Chart
- (3) Ripple current is measured at 20MHz of bandwidth. The measured terminal is paralleled with a 22uF E-cap and a 0.1uF ceramic cap.
- (4) For Type A Only
- (5) Please refer to "LED Driving Output Mode" Chart
- (6) For efficiency test conditions, please refer to "Efficiency Vs Load" Chart
- (7) Please refer to "PFC Vs Load Curve" Chart
- (8) Please refer to "Temperature De-Rating Curve" Chart
- (9) This product is Listed to applicable standards and requirements by UL.

*\*Due to advances in technology, specifications subject to change without notice.*

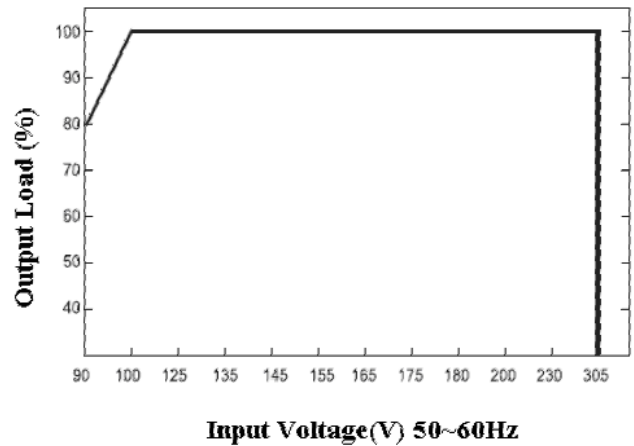
**DERATING CURVES**

**Output Load De-Rating Curve**

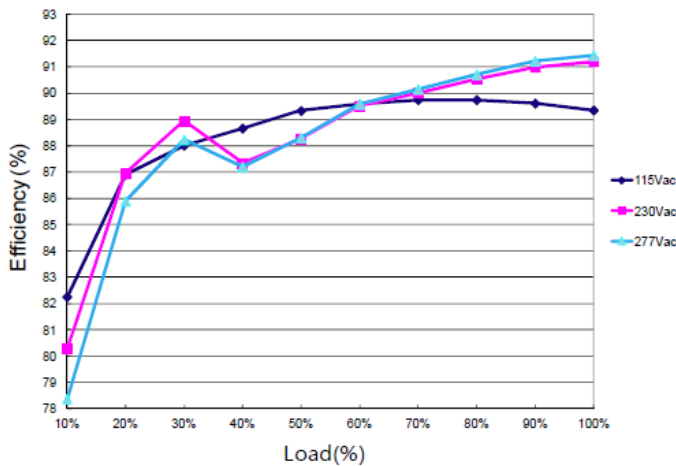
Temperature De-Rating Curve



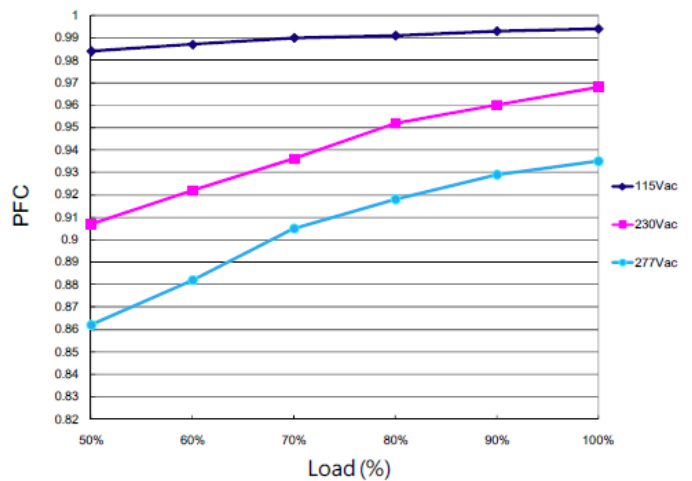
Input Voltage De-Rating Curve



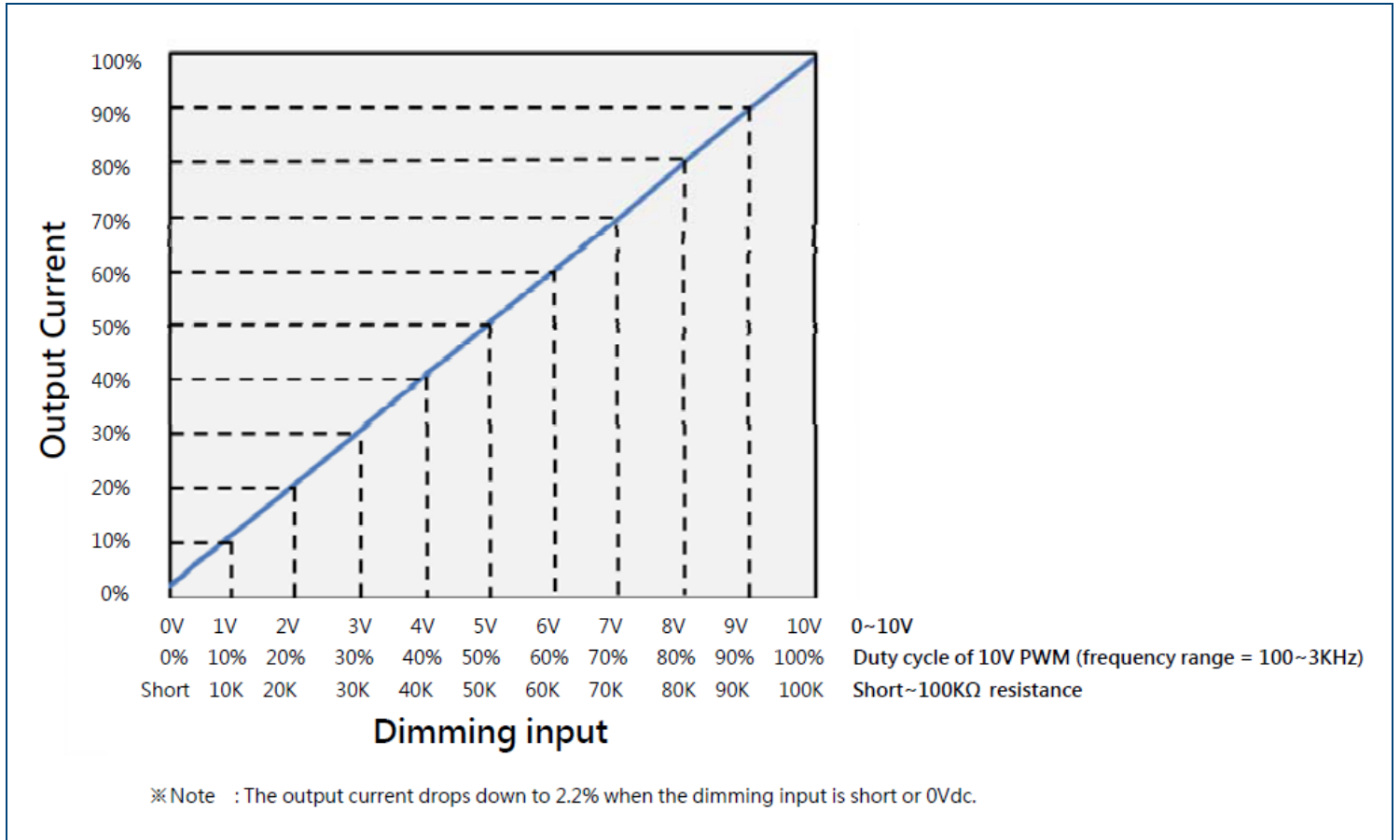
Efficiency Vs Load (PSMDC-060-0700)



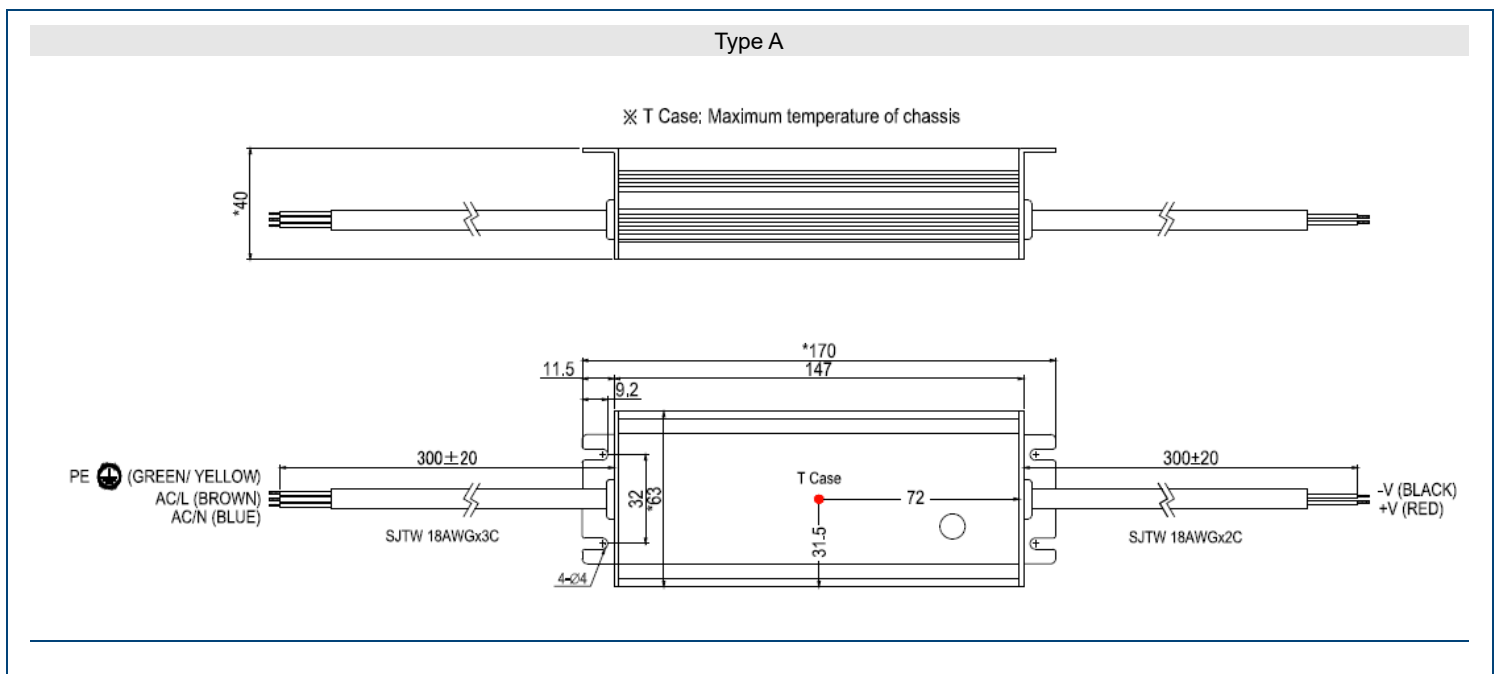
Power Factor Vs Load (PSMDC-060-0700)



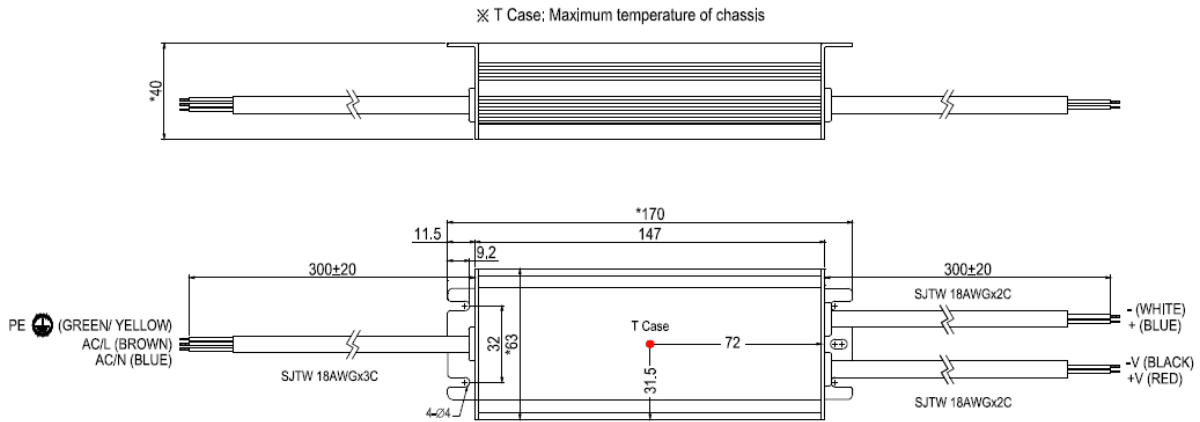
DIMMING CURVE (PSMDC-060-1750)



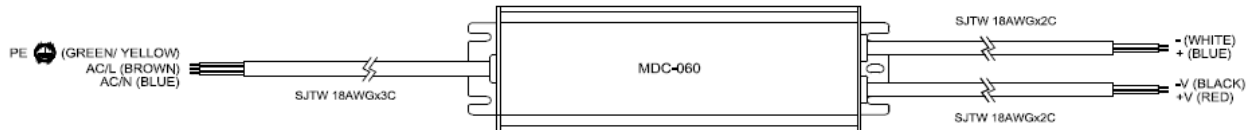
MECHANICAL DRAWINGS



**Type B**



**Dimming Mode (Type B Only)**



\* Do not put "-V (BLACK)" & "- (WHITE)" in connection

\*Short~100KΩ Adjust Output Current

Resistor Value	Short	10KΩ	20KΩ	30KΩ	40KΩ	50KΩ	60KΩ	70KΩ	80KΩ	90KΩ	100KΩ	OPEN
Rated Current Rate	2.2%	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	95~105%

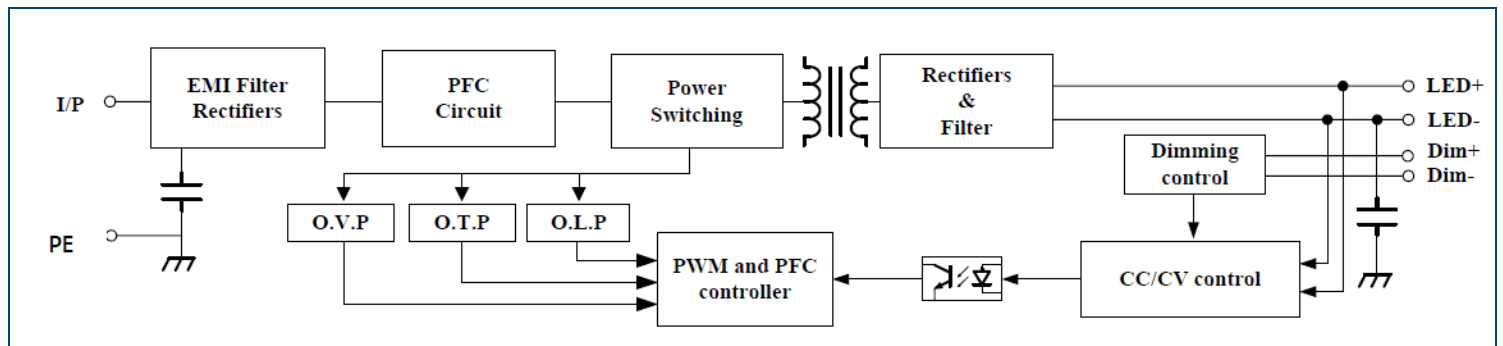
\*0~10VDC Adjust Output Current

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%

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

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%

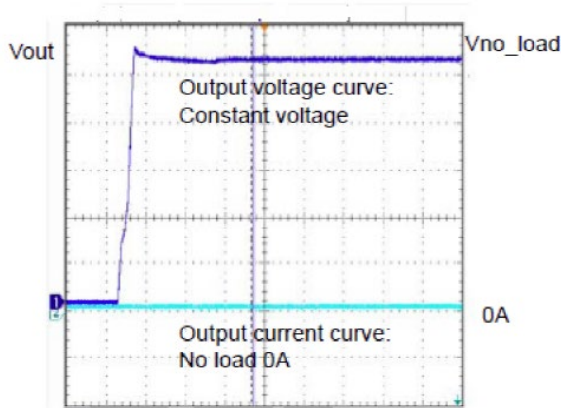
**FUNCTION BLOCK**



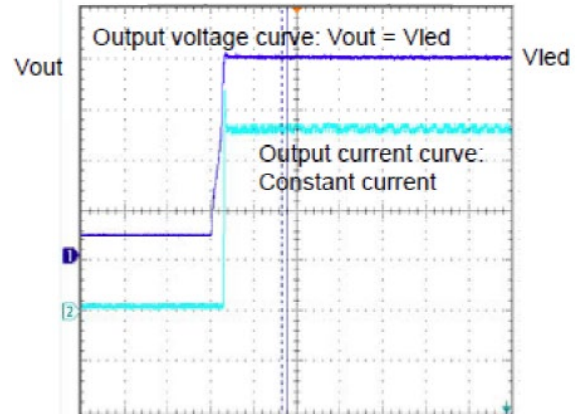
LED DRIVING OUTPUT MODE

LED Driver output characteristics with constant voltage mode (CV) & constant current mode (CC) to direct drive all kinds of LED lighting correctly

**No load start up waveform:**  
 $V_{out} = V_{no\_load} (CV)$



**Connecting LED load start up waveform:**  
 $V_{out} = V_{led}; I_{out} = I_{set} (CC)$   
( $I_{set} = \text{Default output current}$ )



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.

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