## 35Watts Single Output LED Driver







## Features:

- Constant Current Design
- Dimming Control
- Universal AC input/ Full Range
- Built-in Active PFC function, PF 0.98 Typical
- High Efficiency (Up to 88%)
- Output Protections: OVP/SCP/OTP
- Lightning Protection
- Class 2 Power Unit (See Note)
- Waterproof (IP67)
- 5 Year Warranty

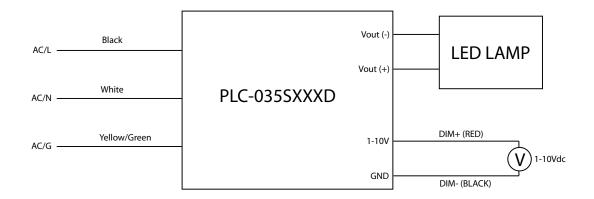


Mode   Puc-assesse  Puc-asses								,			
Rated Current   See No.   0.35 A (r)   0.45 A (r)   0.70 A (r)   1.00 A (r)   1.40 A (r)   1.75 A (r)   2.10 A (r)   2.45 A (r)   2.90 A (r)   2.9	Model		PLC-035S035D	PLC-035S045D	PLC-035S070D	PLC-035S105D	PLC-035S140D	PLC-035S175D	PLC-035S210D	PLC-035S245D	PLC-035S290D
Voltage Range	· · · · · · · · · · · · · · · · · · ·										
Ripple and Nolse (max)   No.e		See Note								<u> </u>	
Voltage Accurate	Voltage Range		33~100V	26~78V	17~50V	11~33V	8~24V	7~20V	6~18V	5~15V	4~12V
Line Regulation	Ripple and Noise (max) Note 1										
Load Regulation	Voltage Accuracy		±5% Vo								
Rise   Time											
Hold-up Time (Typ.)   8.5mS Min (110VAC input, full load). 10mS Min (220VAC input, full load)   Input Characteristics	-		±3% Vo								
Noting   Range											
Voltage Ranger   Vol	Hold-up Time (Typ.)		8.5mS Min (110VAC input, full load), 10mS Min (220VAC input, full load)								
Provide   Prov	Input Chai	acteristics									
Power Factor   110VAC   2098   >0.99   >0.92	Voltage Range		90VAC~305VAC								
Typical   220VAC	Frequency Range		47Hz-63Hz								
Efficiency (Typical) 88% 87% 86% 86% 85% 84% 84% 84% 83% 82%  AC Current (max) 1.0A @ 100-277VAC Input Full Load  Inrush Current (max) 65A @ 230VAC, 25°C  Leakage Current 0.6mA max @ 277VAC  Protection  Over Temperature (OTP) 110°C (Temperature of internal components); shut down, auto recover after the temperature decreases  Over Voltage (OVP) № 2 1.2-1.4Vo  Short Circuit (SCP) Long-term mode, auto recovery  Environmental Characteristics  Operating Temperature 107 10% RH to 100% RH  Storage Temperature 10% S5°C-70°C  Operating Relative Humidity 10% RH to 100% RH non-condensing  Vibration 10 to 300Hz sweep at constant acceleration of 1.0G(Breadth: 3.5mm) for 1 Hour for each of the perpendicular axes X, Y, Z  Waterproof Rating 1P67  Safety Standards UL8750, Compliance to UL1012 UL935, IEC61347  Withstand Voltage UP-0/P: >100M Ohms / 500VDC / 25°C / 70% RH  EMC Emission Compliance to EN55022(CISPR22) Class B, EN61000-3-2 Class A, EN61000-3-3  EMC Immunity Compliance to EN61000-3-2, 3 EN61000-4-2, 3, 4, 5, 6, 8, 11, EN61547  Characteristics  Life Time More than 50,000Hrs (25°C, 80% Load)  MTBF (MIL-HDBK-217F) More than 550,000Hrs (25°C, 80% Load)  Dimension (LWXH) 199x42.5x34mm  Note 1. Ripple & Roise: Measured by 20 MHz bandwidth oscilloscope and the output paralleled with a 0.1 uF ceramic capacitor and a 10 uF electrolytic capacitor. 2 Latch Mode: The power supply shall return to normal operation only after the power is turned on again (1) Non-Class 2 output (USR & CNR) (2) Class 2 Output (USR &	Power Factor	110VAC	>0.98	>0.98	>0.98	>0.98	>0.98	>0.98	>0.98	>0.98	>0.98
AC Current (max)  Incush Current (max)  55A @ 230VAC, 25°C  Leakage Current  Description  Over Temperature (OTP)  110°C (Temperature of internal components); shut down, auto recover after the temperature decreases  Over Voltage (OVP)  Note 2  1.2-1.4Vo  Short Circuit (SCP)  Long-term mode, auto recovery  Environmental Characteristics  Operating Temperature  -35°C-70°C  Operating Relative Humidity  10% RH to 100% RH  Storage Temperature  -40°C-85°C, 5% to 100% RH non-condensing  Vibration  10 to 300Hz sweep at constant acceleration of 1.0G(Breadth: 3.5mm) for 1 Hour for each of the perpendicular axes X, Y, Z  Waterproof Rating  IP67  Safety Standards  UL8750, Compliance to UL1012 UL935, IEC61347  Withstand Voltage  L/N-GND: 4kV, L-N: 2kV  Isolation Resistance  I/P-O/P: >100M Ohms / 500VDC / 25°C / 70% RH  EMC Emission  Compliance to EN55022(CISPR22) Class B, EN61000-3-2 Class A, EN61000-3-3  EMC Immunity  Compliance to EN61000-3-2, 3 EN61000-4-2, 3, 4, 5, 6, 8, 11, EN61547  Characteristics  Life Time  More than 50,000Hrs (25°C, 80% Load)  MTBF (MIL-HDBK-217F)  More than 550,000Hrs (25°C, 80% Load)  MTBF (MIL-HDBK-217F)  More than 550,000Hrs (25°C, 80% Load)  1. Ripple & Noise: Measured by 20 MHz bandwidth coellioscope and the output paralleled with a 0.1 uF ceramic capacitor and a 10 uF electolytic capacitor. 2. Latch Mode: The power supply shall return to normal operation only after the power is turned on again  (1) Non-Class 2 output (USR & CNR)  Class Coutput (USR & CNR)  (2) Class 2 output (USR & CNR)  (2) Class 2 output (USR & CNR)	(Typical)	220VAC	>0.92	>0.92	>0.92	>0.92	>0.92	>0.92	>0.92	>0.92	>0.92
Inrush Current (max)       65A @ 230VAC, 25°C         Leakage Current       0.6mA max @ 277VAC         Protection         Over Voltage (OVP)       110°C (Temperature of internal components); shut down, auto recover after the temperature decreases         Over Voltage (OVP)       Noba 2       1.2-1.4Vo         Short Circuit (SCP)       Long-term mode, auto recovery         Environmental Characteristics         Operating Temperature       -35°C-70°C         Operating Relative Humidity       10% RH to 100% RH         Storage Temperature       -40°C-85°C, 5% to 100% RH non-condensing         Vibration       10 to 300Hz sweep at constant acceleration of 1.0G(Breadth: 3.5mm) for 1 Hour for each of the perpendicular axes X, Y, Z         Waterproof Rating       IP67         Safety Standards       UL8750, Compliance to UL1012 UL935, IEC61347         Withstand Voltage       L/N-GND: 4kV, L-N: 2kV         Isolation Resistance       I/P-O/P: > 100M Ohms / 500VDC / 25°C / 70% RH         EMC Emission       Compliance to EN55022(CISPR22) Class B, EN61000-3-2 Class A, EN61000-3-3         EMC Immunity       Compliance to EN61000-3-2, 3 EN61000-4-2, 3, 4, 5, 6, 8, 11, EN61547         Characteristics         Life Time       More than 50,000Hrs (25°C, 80% Load)         MTBF (MIL-HDBK-217F)       More than 550,000Hrs (25°C, 80% Load)	Efficiency (Typi	cal)	88%	87%	86%	86%	85%	84%	84%	83%	82%
Leakage Current         0.6mA max @ 277VAC           Protection           Over Temperature (OTP)         110°C (Temperature of internal components); shut down, auto recover after the temperature decreases           Over Voltage (OVP)         Neba 2         1.2~1.4Vo           Short Circuit (SCP)         Long-term mode, auto recovery           Environmental Characteristics         Coperating Temperature         -35°C~70°C           Operating Relative Humidity         10% RH to 100% RH           Storage Temperature         -40°C~85°C, 5% to 100% RH non-condensing           Vibration         10 to 300Hz sweep at constant acceleration of 1.0G(Breadth: 3.5mm) for 1 Hour for each of the perpendicular axes X, Y, Z           Waterproof Rating         IP67           Safety Standards         UL8750, Compliance to UL1012 UL935, IEC61347           Withstand Voltage         L/N-GND: 4kV, L-N: 2kV           Isolation Resistance         I/P-O/P: >100M Ohms / 500VDC / 25°C / 70% RH           EMC Emission         Compliance to EN55022(CISPR22) Class B, EN61000-3-2 Class A, EN61000-3-3           EMC Immunity         Compliance to EN56022(CISPR22) Class B, EN61000-4-2, 3, 4, 5, 6, 8, 11, EN61547           Characteristics         Life Time         More than 50,000Hrs (25°C, 80% Load)           MTBF (MIL-HDBK-217F)         More than 550,000Hrs (25°C, 80% Load)           Dimension (LXWXH)         19	AC Current (max)		1.0A @ 100-277VAC Input Full Load								
Protection  Over Temperature (OTP)	Inrush Current (max)		65A @ 230VAC, 25°C								
Over Temperature (OTP)       110°C (Temperature of internal components); shut down, auto recover after the temperature decreases         Over Voltage (OVP) Note 2       1.2~1.4Vo         Short Circuit (SCP)       Long-term mode, auto recovery         Environmental Characteristics       ————————————————————————————————————	Leakage Current		0.6mA max @ 277VAC								
Over Voltage (OVP)         Note 2         1.2~1.4Vo           Short Circuit (SCP)         Long-term mode, auto recovery           Environmental Characteristics           Operating Temperature         -35°C-70°C           Operating Relative Humidity         10% RH to 100% RH           Storage Temperature         -40°C-85°C, 5% to 100% RH non-condensing           Vibration         10 to 300Hz sweep at constant acceleration of 1.0G(Breadth: 3.5mm) for 1 Hour for each of the perpendicular axes X, Y, Z           Waterproof Rating         IP67           Safety Standards         UL8750, Compliance to UL1012 UL935, IEC61347           Withstand Voltage         L/N-GND: 4kV, L-N: 2kV           Isolation Resistance         I/P-O/P: > 100M Ohms / 500VDC / 25°C / 70% RH           EMC Emission         Compliance to EN55022(CISPR22) Class B, EN61000-3-2 Class A, EN61000-3-3           EMC Immunity         Compliance to EN61000-3-2, 3 EN61000-4-2, 3, 4, 5, 6, 8, 11, EN61547           Characteristics           Life Time         More than 50,000Hrs (25°C, 80% Load)           MTBF (MIL-HDBK-217F)         More than 50,000Hrs (25°C, 80% Load)           Dimension (LxWxH)         199x42.5x34mm           Note         1, Ripple & Noise: Measured by 20 MHz bandwidth oscilloscope and the output paralleled with a 0.1 uF ceranic capacitor and a 10 uF electrolytic capacitor. 2, Latch Mode: The power supply shall return to normal operat	Protection										
Short Circuit (SCP)   Long-term mode, auto recovery	Over Temperature (OTP)		110°C (Temperature of internal components); shut down, auto recover after the temperature decreases								
Environmental Characteristics  Operating Temperature	· · · · · ·		1.2~1.4Vo								
Operating Temperature -35°C-70°C Operating Relative Humidity Storage Temperature -40°C-85°C, 5% to 100% RH non-condensing Vibration 10 to 300Hz sweep at constant acceleration of 1.0G(Breadth: 3.5mm) for 1 Hour for each of the perpendicular axes X, Y, Z Waterproof Rating IP67 Safety Standards UL8750, Compliance to UL1012 UL935, IEC61347 Withstand Voltage L/N-GND: 4kV, L-N: 2kV Isolation Resistance I/P-O/P: >100M Ohms / 500VDC / 25°C / 70% RH EMC Emission Compliance to EN55022(CISPR22) Class B, EN61000-3-2 Class A, EN61000-3-3 EMC Immunity Compliance to EN61000-3-2, 3 EN61000-4-2, 3, 4, 5, 6, 8, 11, EN61547  Characteristics Life Time More than 50,000Hrs (25°C, 80% Load) MTBF (MIL-HDBK-217F) More than 550,000Hrs (25°C, 80% Load) Note 1. Ripple & Noise: Measured by 20 MHz bandwidth oscilloscope and the output paralleled with a 0.1 uF ceramic capacitor and a 10 uF electrolytic capacitor. 2. Latch Mode: The power supply shall return to normal operation only after the power is turned on again (1) Non-Class 2 output (USR; Non-Class 2 output (USR)	Short Circuit (SCP)		Long-term mode, auto recovery								
Operating Relative Humidity     10% RH to 100% RH       Storage Temperature     -40°C~85°C, 5% to 100% RH non-condensing       Vibration     10 to 300Hz sweep at constant acceleration of 1.0G(Breadth: 3.5mm) for 1 Hour for each of the perpendicular axes X, Y, Z       Waterproof Rating     IP67       Safety Standards     UL8750, Compliance to UL1012 UL935, IEC61347       Withstand Voltage     L/N-GND: 4kV, L-N: 2kV       Isolation Resistance     I/P-O/P: >100M Ohms / 500VDC / 25°C / 70% RH       EMC Emission     Compliance to EN55022(CISPR22) Class B, EN61000-3-2 Class A, EN61000-3-3       EMC Immunity     Compliance to EN61000-3-2, 3 EN61000-4-2, 3, 4, 5, 6, 8, 11, EN61547       Characteristics       Life Time     More than 50,000Hrs (25°C, 80% Load)       MTBF (MIL-HDBK-217F)     More than 550,000Hrs (25°C, 80% Load)       Dimension (LxWxH)     199x42.5x34mm       Note     1. Ripple & Noise: Measured by 20 MHz bandwidth oscilloscope and the output paralleled with a 0.1 uF ceramic capacitor and a 10 uF electrolytic capacitor. 2. Latch Mode: The power supply klall return to normal operation only after the power is turned on again (1) Non-Class 2 output (USR & CNR) (2) Class 2 output (USR); Non-Class 2 output (CNR)	Environmental Characteristics										
Storage Temperature  -40°C-85°C, 5% to 100% RH non-condensing  Vibration  10 to 300Hz sweep at constant acceleration of 1.0G(Breadth: 3.5mm) for 1 Hour for each of the perpendicular axes X, Y, Z  Waterproof Rating  Bafety Standards  UL8750, Compliance to UL1012 UL935, IEC61347  Withstand Voltage  L/N-GND: 4kV, L-N: 2kV  Isolation Resistance  I/P-O/P: >100M Ohms / 500VDC / 25°C / 70% RH  EMC Emission  Compliance to EN55022(CISPR22) Class B, EN61000-3-2 Class A, EN61000-3-3  EMC Immunity  Compliance to EN61000-3-2, 3 EN61000-4-2, 3, 4, 5, 6, 8, 11, EN61547  Characteristics  Life Time  More than 50,000Hrs (25°C, 80% Load)  MTBF (MIL-HDBK-217F)  More than 550,000Hrs (25°C, 80% Load)  Dimension (LxWxH)  199x42.5x34mm  Note  1. Ripple & Noise: Measured by 20 MHz bandwidth oscilloscope and the output paralleled with a 0.1 uF ceramic capacitor and a 10 uF electrolytic capacitor. 2. Latch Mode: The power supply shall return to normal operation only after the power is turned on again (1) Non-Class 2 output (USR & CNR) (2) Class 2 output (USR); Non-Class 2 output (CNR)	Operating Temperature		-35°C~70°C								
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Waterproof Rating  IP67  Safety Standards  UL8750, Compliance to UL1012 UL935, IEC61347  Withstand Voltage  L/N-GND: 4kV, L-N: 2kV  Isolation Resistance  I/P-O/P: >100M Ohms / 500VDC / 25°C / 70% RH  EMC Emission  Compliance to EN55022(CISPR22) Class B, EN61000-3-2 Class A, EN61000-3-3  EMC Immunity  Compliance to EN61000-3-2, 3 EN61000-4-2, 3, 4, 5, 6, 8, 11, EN61547  Characteristics  Life Time  More than 50,000Hrs (25°C, 80% Load)  MTBF (MIL-HDBK-217F)  More than 550,000Hrs (25°C, 80% Load)  Dimension (LxWxH)  199x42.5x34mm  Note  1. Ripple & Noise: Measured by 20 MHz bandwidth oscilloscope and the output paralleled with a 0.1 uF ceramic capacitor and a 10 uF electrolytic capacitor. 2. Latch Mode: The power supply shall return to normal operation only after the power is turned on again (1) Non-Class 2 output (USR & CNR) (2) Class 2 output (USR); Non-Class 2 output (CNR)	Storage Temperature		-40°C~85°C, 5% to 100% RH non-condensing								
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Withstand Voltage L/N-GND: 4kV, L-N: 2kV  Isolation Resistance I/P-O/P: >100M Ohms / 500VDC / 25°C / 70% RH  EMC Emission Compliance to EN55022(CISPR22) Class B, EN61000-3-2 Class A, EN61000-3-3  EMC Immunity Compliance to EN61000-3-2, 3 EN61000-4-2, 3, 4, 5, 6, 8, 11, EN61547  Characteristics  Life Time More than 50,000Hrs (25°C, 80% Load)  MTBF (MIL-HDBK-217F) More than 550,000Hrs (25°C, 80% Load)  Dimension (LxWxH) 199x42.5x34mm  Note  1. Ripple & Noise: Measured by 20 MHz bandwidth oscilloscope and the output paralleled with a 0.1 uF ceramic capacitor and a 10 uF electrolytic capacitor. 2. Latch Mode: The power supply shall return to normal operation only after the power is turned on again (1) Non-Class 2 output (USR & CNR) (2) Class 2 output (USR); Non-Class 2 output (CNR)	Waterproof Rating		IP67								
I/P-O/P: >100M Ohms / 500VDC / 25°C / 70% RH  EMC Emission	Safety Standards		UL8750, Compliance to UL1012 UL935, IEC61347								
EMC Emission  Compliance to EN55022(CISPR22) Class B, EN61000-3-2 Class A, EN61000-3-3  EMC Immunity  Compliance to EN61000-3-2, 3 EN61000-4-2, 3, 4, 5, 6, 8, 11, EN61547  Characteristics  Life Time  More than 50,000Hrs (25°C, 80% Load)  MTBF (MIL-HDBK-217F)  More than 550,000Hrs (25°C, 80% Load)  Dimension (LxWxH)  199x42.5x34mm  Note  1. Ripple & Noise: Measured by 20 MHz bandwidth oscilloscope and the output paralleled with a 0.1 uF ceramic capacitor and a 10 uF electrolytic capacitor. 2. Latch Mode: The power supply shall return to normal operation only after the power is turned on again (1) Non-Class 2 output (USR & CNR) (2) Class 2 output (USR); Non-Class 2 output (CNR)	Withstand Voltage		L/N-GND: 4kV, L-N: 2kV								
EMC Immunity  Compliance to EN61000-3-2, 3 EN61000-4-2, 3, 4, 5, 6, 8, 11, EN61547  Characteristics  Life Time  More than 50,000Hrs (25°C, 80% Load)  MTBF (MIL-HDBK-217F)  More than 550,000Hrs (25°C, 80% Load)  Dimension (LxWxH)  199x42.5x34mm  1. Ripple & Noise: Measured by 20 MHz bandwidth oscilloscope and the output paralleled with a 0.1 uF ceramic capacitor and a 10 uF electrolytic capacitor. 2. Latch Mode: The power supply shall return to normal operation only after the power is turned on again (1) Non-Class 2 output (USR & CNR) (2) Class 2 output (USR); Non-Class 2 output (CNR)	Isolation Resistance										
Characteristics  Life Time More than 50,000Hrs (25°C, 80% Load)  MTBF (MIL-HDBK-217F) More than 550,000Hrs (25°C, 80% Load)  Dimension (LxWxH) 199x42.5x34mm  Note 1. Ripple & Noise: Measured by 20 MHz bandwidth oscilloscope and the output paralleled with a 0.1 uF ceramic capacitor and a 10 uF electrolytic capacitor.  2. Latch Mode: The power supply shall return to normal operation only after the power is turned on again  (1) Non-Class 2 output (USR & CNR)  (2) Class 2 output (USR); Non-Class 2 output (CNR)	EMC Emission		Compliance to EN55022(CISPR22) Class B, EN61000-3-2 Class A, EN61000-3-3								
Life Time  More than 50,000Hrs (25°C, 80% Load)  MTBF (MIL-HDBK-217F)  More than 550,000Hrs (25°C, 80% Load)  Dimension (LxWxH)  199x42.5x34mm  1. Ripple & Noise: Measured by 20 MHz bandwidth oscilloscope and the output paralleled with a 0.1 uF ceramic capacitor and a 10 uF electrolytic capacitor. 2. Latch Mode: The power supply shall return to normal operation only after the power is turned on again (1) Non-Class 2 output (USR & CNR) (2) Class 2 output (USR); Non-Class 2 output (CNR)	EMC Immunity		Compliance to EN61000-3-2, 3 EN61000-4-2, 3, 4, 5, 6, 8, 11, EN61547								
MTBF (MIL-HDBK-217F)  More than 550,000Hrs (25°C, 80% Load)  Dimension (LxWxH)  199x42.5x34mm  1. Ripple & Noise: Measured by 20 MHz bandwidth oscilloscope and the output paralleled with a 0.1 uF ceramic capacitor and a 10 uF electrolytic capacitor. 2. Latch Mode: The power supply shall return to normal operation only after the power is turned on again (1) Non-Class 2 output (USR & CNR) (2) Class 2 output (USR); Non-Class 2 output (CNR)	Character	stics									
Dimension (LxWxH)  199x42.5x34mm  1. Ripple & Noise: Measured by 20 MHz bandwidth oscilloscope and the output paralleled with a 0.1 uF ceramic capacitor and a 10 uF electrolytic capacitor. 2. Latch Mode: The power supply shall return to normal operation only after the power is turned on again (1) Non-Class 2 output (USR & CNR) (2) Class 2 output (USR); Non-Class 2 output (CNR)	Life Time		More than 50,000Hrs (25°C, 80% Load)								
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2. Latch Mode: The power supply shall return to normal operation only after the power is turned on again  (1) Non-Class 2 output (USR & CNR)  (2) Class 2 output (USR); Non-Class 2 output (CNR)	Dimension (LxWxH)		199x42.5x34mm								
(1) Non-Class 2 output (USR & CNR) (2) Class 2 output (USR); Non-Class 2 output (CNR)	Note		1. Ripple & Nois	e: Measured by 2	0 MHz bandwidth	oscilloscope and	the output parallel	ed with a 0.1 uF ce	ramic capacitor ar	nd a 10 uF electrol	ytic capacitor.
(2) Class 2 output (USR); Non-Class 2 output (CNR)			2. Latch Mode:	The power supply	shall return to no	rmal operation onl	y after the power i	s turned on again			
			(2) Class 2 output (USR); Non-Class 2 output (CNR)								

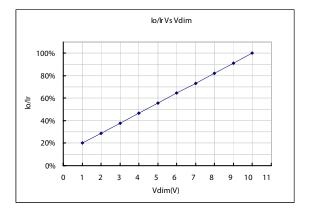


## **DIMMING CONTROL**

The dimmer control may be operated from an input signal of 1 - 10 Vdc.



Implementation: DC Input

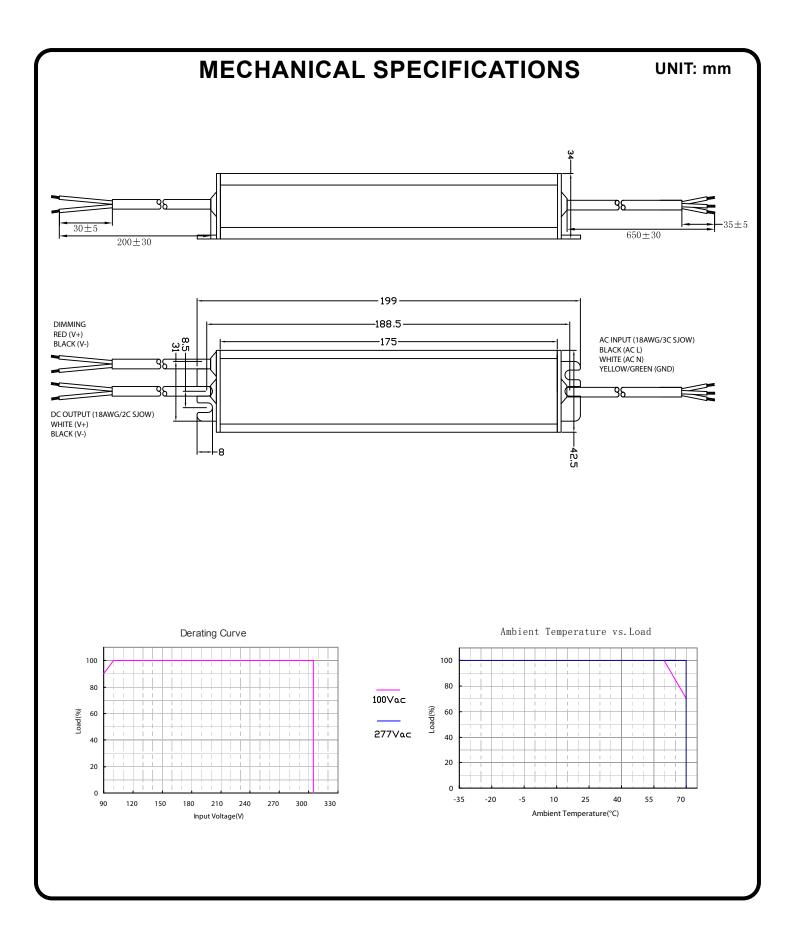


## Notes:

- 1. lo is actual output current and Ir is rated current.
- 2. If the dimming function is not used, please short 10 V output pin (Black) and 1-10 V input pin(Red). The output current is about 92% Ir when the 1-10V input pin is floating.
- 3. For the driver to operate properly, the load voltage must be maintained above the minimum voltage threshold (approx. 50% of the max. output voltage for any given model).
- 4. The dimming voltage can be tuned down to less than 1V, and the output current will be decreased to about 10% Ir; but the connected LEDs may flicker. Keeping dimming voltage greater than 1V is strongly recommended.
- 5. Do not connect the GND of dimming to the output; otherwise, the LED driver will not work normally.

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