



- High Efficiency (Up to 88%)
- Active Power Factor Correction
- Constant Output Current
- Up to 305VAC Operation
- Waterproof to IP66
- Dimming Control (optional)
- Lightning Protection
- Comprehensive Protection Circuitry
- UL8750 & EN61347 Safety Approvals
- RoHS Compliant

Electrical Specifications

Input

Input Voltage	90-305VAC
Input Frequency	47-63 Hz
Input Current	0.48A @ 100VAC 0.23A @ 220VAC
Inrush Current	60A @ 230VAC/25°C/Cold Start
Power Factor	See table
Leakage Current	500µA @ 270VAC
No Load Power Dissipation	≤6W

Output

Output Voltage	See table
No Load Output Voltage	Maximum value of each model
Dimming Control	Optional (specify suffix DS on model)
Start Up Delay	3 seconds maximum at 110VAC
Line Regulation	±2%
Load Regulation	±5%
Ripple & Noise	3-5% pk-pk, 20MHz bandwidth (see note)
Overvoltage Protection	Hiccup mode; auto restart when fault removed
Overload Protection	Hiccup mode; auto restart when fault removed
Short Circuit Protection	No damage to unit; auto recovery when fault removed

Note: 1. All specifications typical at 25°C unless noted.
Note: 2. 3% for I_o 1280 or greater; all others 5%.

General

Efficiency	See tables
Isolation	3kVAC input to output 1.5kVAC input to ground 0.5kVAC output to ground
MTBF (MIL-HDBK-217F)	487kHrs @110VAC, 3330mA model, 80% load, 25°C
Dimensions	3.74"L x 2.76"W x 1.26"H
Net Weight	0.66 lbs.

Environmental

Operating Temp.	-20°C to +60°C maximum
Operating Humidity	10% to 100% RH, non-condensing
Storage Temperature	-40°C to +85°C

Safety & EMC

Safety Approvals

USA	UL8750 Approved Compliance to UL1310 Class 2, UL1012, UL935
Canada	Compliance to CAN/CSA-C22.2 No. 0 CSA-C22.2 No. 107.1, CSA-C22.2 No. 250.0
Europe	EN61347-1, EN61347-2-13 EN55015 (Radiated & Conducted)
EMI	EN61000-3-2
Harmonic Currents	EN61000-3-3
Voltage Flicker	EN61000-4-2; 8kV air; 4kV contact
ESD Immunity	EN61000-4-3
Radiated Immunity	EN61000-4-4
EFT/Burst	EN61000-4-6
Conducted Immunity	EN61000-4-8
Magnetic Field	EN61000-4-8
Dips / Interruptions	EN61000-4-11

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Specifications subject to change.
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Models and Ratings Chart

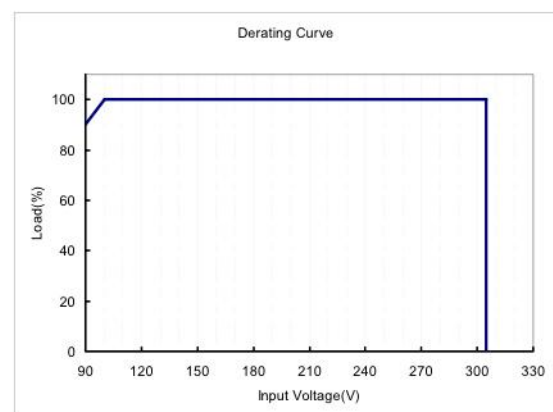
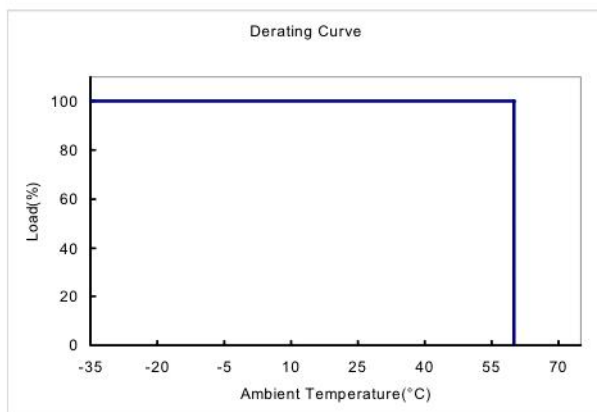
Nominal Output Current	Output Current Range (Note 3)	Max. Output Voltage	Max. Output Power	Typical Efficiency (Note 1)	Power Factor		Model Number With Dimming Control (Note 2)	Model Number (Note 2)
					110VAC	220VAC		
350mA	333mA - 368mA	114VDC	40W	88.0%	0.98	0.92	PIL40U-C350-DS	PIL40U-C350-PS
450mA	428mA - 473mA	89VDC	40W	88.0%	0.98	0.92	PIL40U-C450-DS	PIL40U-C450-PS
700mA	665mA - 735mA	54VDC	40W	87.0%	0.98	0.92	PIL40U-C700-DS	PIL40U-C700-PS
1050mA	998mA - 1103mA	36VDC	40W	87.0%	0.98	0.92	PIL40U-C1050-DS	PIL40U-C1050-PS
1280mA	1216mA - 1344mA	29VDC	40W	87.0%	0.98	0.92	PIL40U-C1280-DS	PIL40U-C1280-PS
1400mA	1330mA - 1470mA	25VDC	40W	87.0%	0.98	0.92	PIL40U-C1400-DS	PIL40U-C1400-PS
1660mA	1577mA - 1743mA	23VDC	40W	86.0%	0.98	0.92	PIL40U-C1660-DS	PIL40U-C1660-PS
2220mA	2109mA - 2331mA	16VDC	40W	85.0%	0.98	0.92	PIL40U-C2220-DS	PIL40U-C2220-PS
3330mA	3164mA - 3497mA	11VDC	40W	84.0%	0.98	0.92	PIL40U-C3330-DS	PIL40U-C3330-PS

Note 1: Measured at 220VAC input and full load.

Note 2: Additional suffix may be included to denote variations or modifications to the base product.

Note 3: Current rating factory set to nominal, unless otherwise specified.

Derating Curve



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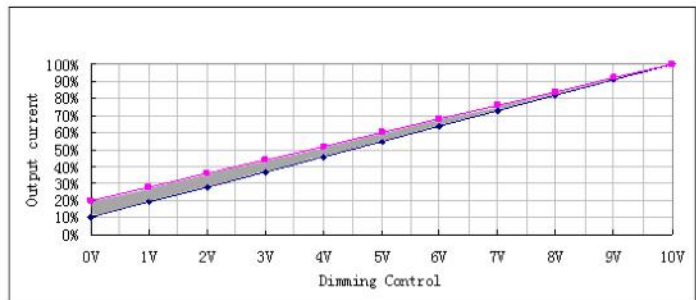
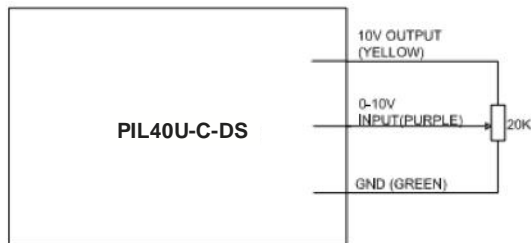
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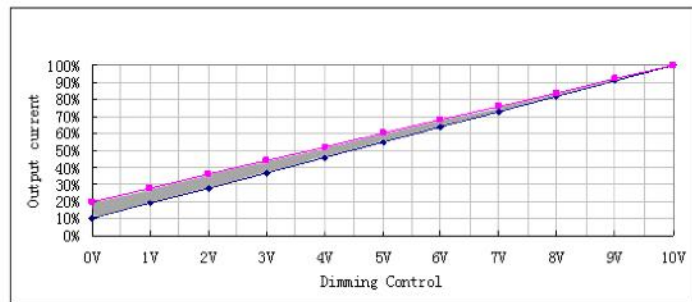
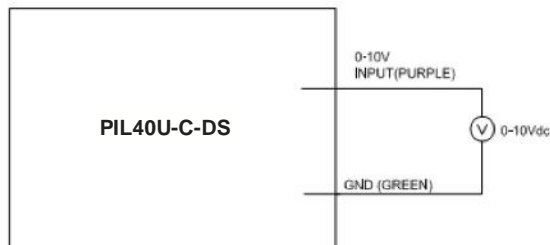


Optional Dimming Control (Secondary Side)

Parameter	Min.	Typ.	Max.
10V Output Voltage	9.8VDC	10VDC	10.2VDC
10V Output Source Current	-10mA	---	2mA
Maximum Voltage on 0-10V Input Pin	-2VDC	---	15VDC
Source Current on 0-10V Input Pin	0mA	---	1mA



Implementation 1: Potentiometer Control



Implementation 2: DC input

Note 1: For proper operation, the load voltage must be maintained above the minimum voltage threshold (approximately 33% of the maximum output voltage for any given model)

Note 2: If the dimming voltage is varied from 10V down to 0V, the output current can be varied from 100% to 10%

Note 3: Connecting GND of the dimming to the output will cause abnormal function of the LED Driver.

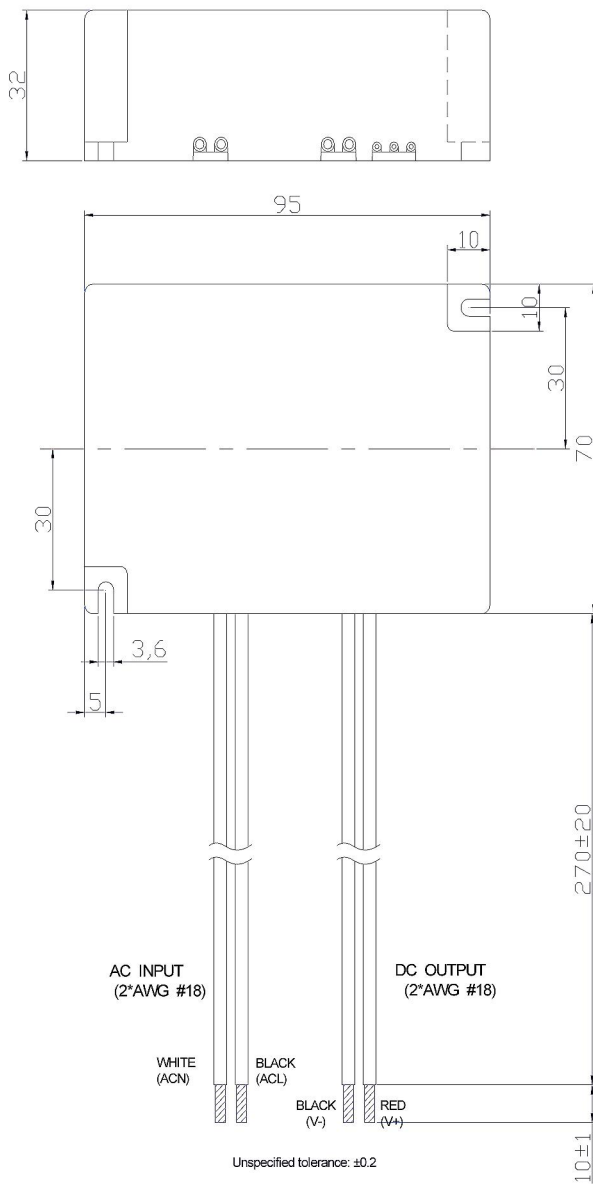
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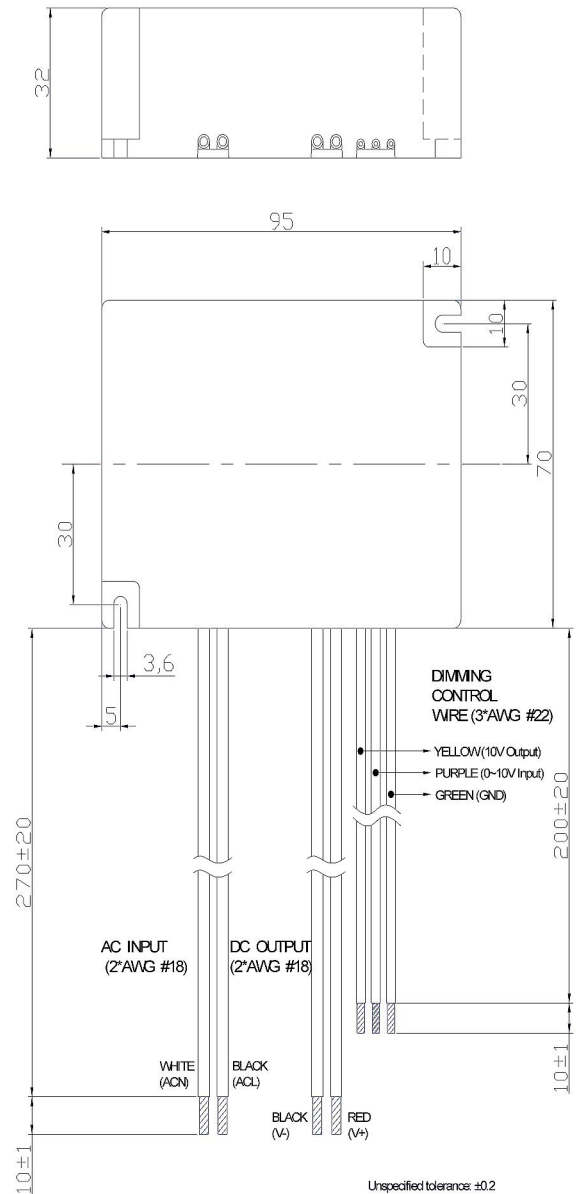
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Mechanical Outline Drawings



PIL40U-C-PS



PIL40U-C-DS

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