



- High Efficiency (Up to 88%)
- Active Power Factor Correction
- Constant Output Current
- Up to 305VAC Operation
- Waterproof to IP67
- 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	0.49A @ 100VAC 0.255A @ 220VAC
Inrush Current	20A @ 230VAC/25°C/Cold Start
Power Factor	See table
No Load Power Dissipation	≤6W

General

Efficiency	See tables
Isolation	3kVAC input to output 1.5kVAC input to ground 0.5kVAC output to ground 541kHrs @110VAC, 2900mA model, 80% load, 25°C
MTBF (MIL-HDBK-217F)	6.77"L x 1.36"W x 1.67"H 1.05 lbs.
Dimensions	
Net Weight	

Output

Output Voltage	See table
Initial Set Accuracy	±10%
Dimming Control	Optional (specify suffix DT on model)
Start Up Delay	2 seconds maximum at 110VAC
Line Regulation	±2%
Load Regulation	±5%
Ripple & Noise	10% pk-pk, 20MHz bandwidth
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: All specifications typical at 25°C unless noted.

Environmental

Operating Temp.	-35°C to +70°C maximum (see derating curve)
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 EN61347-1, EN61347-2-13
Europe	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	EN61000-4-11
Dips / Interruptions	

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Models and Ratings Chart

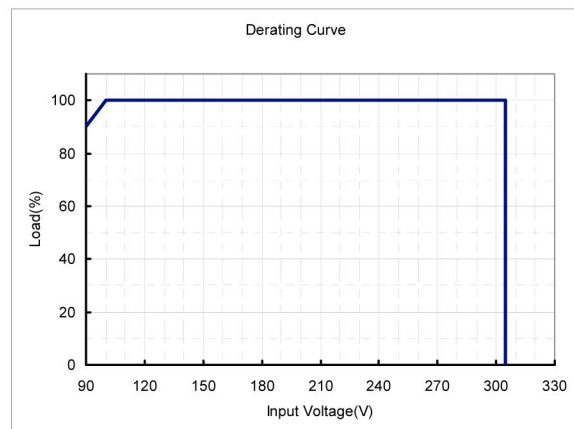
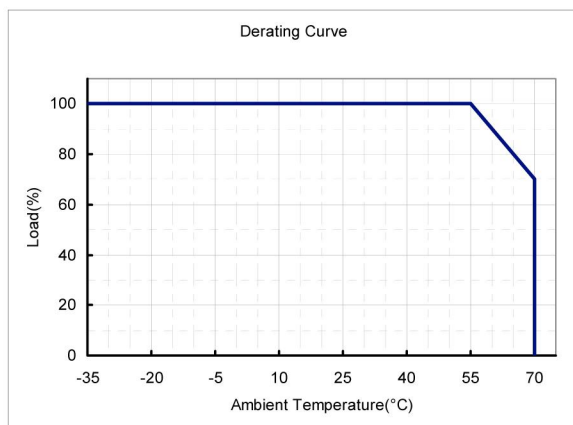
Nominal Output Current	Output Current Range (Note 3)	Max. Output Voltage	Max. Output Power	Typical Efficiency (Note 1)	Power Factor		Model Number With Dimming Control (Note 2)	Model Number (Note 2)
					110VAC	220VAC		
350mA	333mA - 368mA	100VDC	35W	88.0%	0.99	0.92	PIL35U-C350-DT	PIL35U-C350-ST
450mA	428mA - 473mA	78VDC	35W	87.0%	0.99	0.92	PIL35U-C450-DT	PIL35U-C450-ST
700mA	665mA - 735mA	50VDC	35W	86.0%	0.99	0.92	PIL35U-C700-DT	PIL35U-C700-ST
1050mA	998mA - 1103mA	33VDC	35W	86.0%	0.99	0.92	PIL35U-C1050-DT	PIL35U-C1050-ST
1400mA	1330mA - 1470mA	24VDC	35W	85.0%	0.99	0.92	PIL35U-C1400-DT	PIL35U-C1400ST
1750mA	1663mA - 1838mA	20VDC	35W	84.0%	0.99	0.92	PIL35U-C1750-DT	PIL35U-C1750-ST
2100mA	1995mA - 2205mA	18VDC	35W	84.0%	0.99	0.92	PIL35U-C2100-DT	PIL35U-C2100ST
2450mA	2328mA - 2573mA	15VDC	35W	83.0%	0.99	0.92	PIL35U-C2450-DT	PIL35U-C2450-ST
2900mA	2755mA - 3045mA	12VDC	35W	82.0%	0.99	0.92	PIL35U-C2900-DT	PIL35U-C2900-ST

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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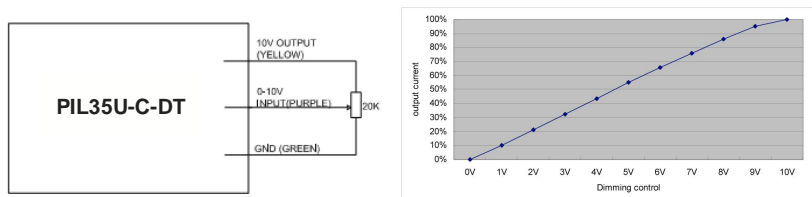
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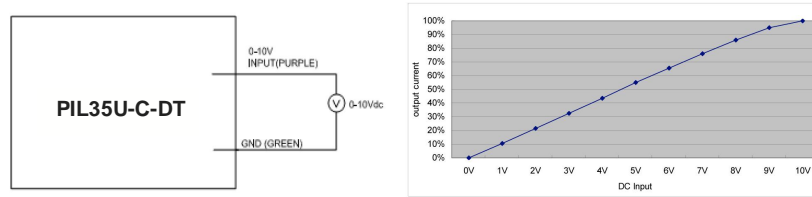


Optional Dimming Control (Secondary Side)

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 input voltage is between 90-175VAC, the input current can be varied from 100% to 10% (See Figure 1)

Note 3: If the input voltage is between 175-305VAC, the input current can be varied from 100% to 20% (See Figure 2)

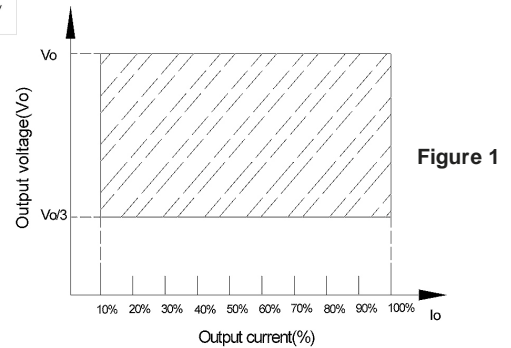


Figure 1

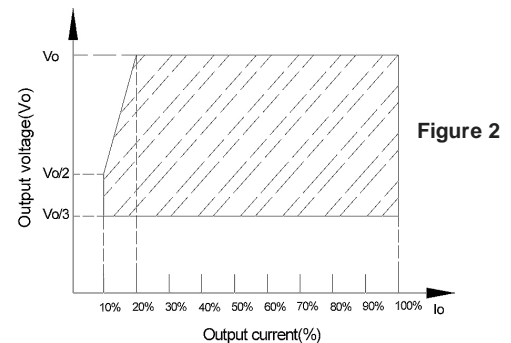


Figure 2

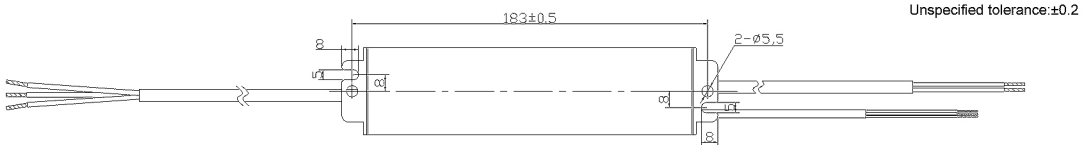
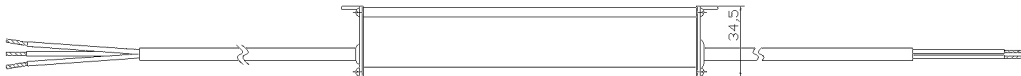
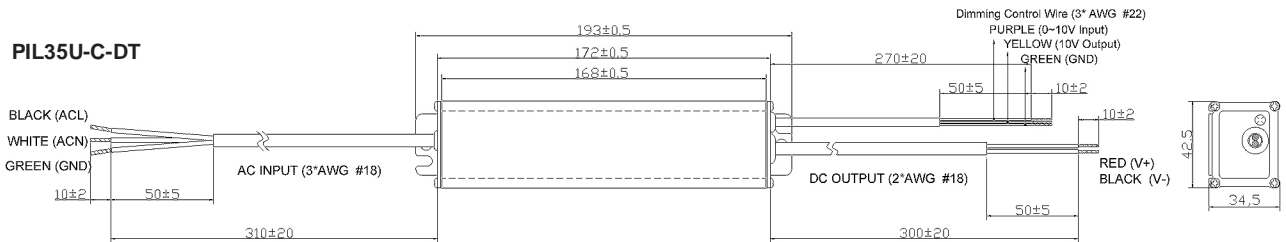
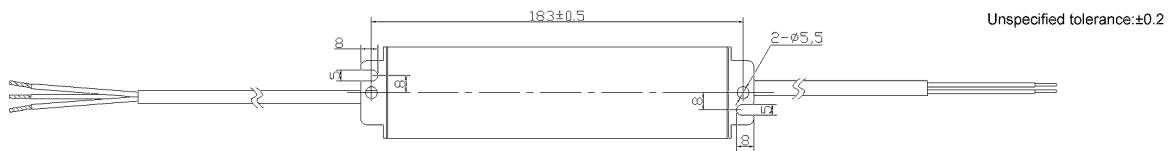
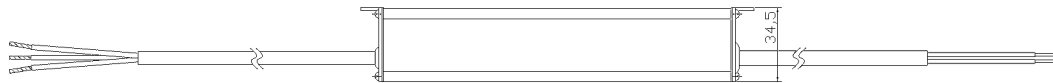
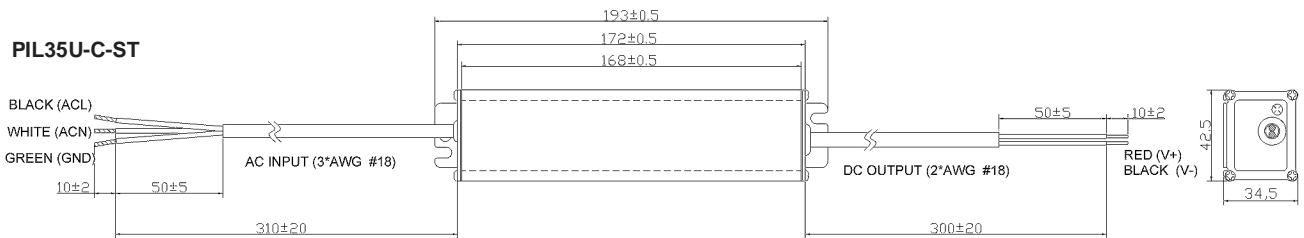
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Mechanical Outline Drawings



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