

LED 35W DE Series – Fixed Output and Dimmable

Switch Mode LED Drivers

Constant Current & Constant Voltage with Isolation

Black Plastic Housing

Total Power: 35 Watts Input Voltage: 110-277Vac Outputs: Single from 7-100Vdc

Indoor Application High Power Factor EN61347, CSA 22.2

EN61000-3-2, EN61000-3-3 Class C

Electrical Specifications

Input Voltage Range:

110-277Vac Nom. (100-305 V Min/Max)

Frequency:

50/60 Hz Nom. (47-63 Hz Min/Max)

Power Factor:

≥0.9@ full load, 100 V through 277 V

Inrush Current:

<15A max @ 230Vac, Cold Start25°C

Input Current:

0.37A @ 100Vac

Maximum Power:

35 W

Line Regulation:

±2%

Load Regulation:

± 4%

THD:

≤20% @ 70-100% load, 100-277V

Leakage Current:

400μA Typical

Turn-on Time Delay:

3.0 S Max

Protection:

Output Over-Voltage reset by power cycling

Output Over-Current and Output Short

Circuit Protection with auto recovery

Electrical Specifications

Operating Temperature:

-40°C to +60°C

Maximum Case Temp:

80°C

Storage Temperature:

-45°C to +85°C

Humidity: Cooling: 5% - 95% Convection

Vibration Frequency:

10 to 300 Hz/1G, 60 minutes

MTBF:

423,000 Hours at full load and 30°C

ambient conditions per MIL-HDBK-217F

FCC 47CFR Part 15 Class B compliant

Ordering Options:

EMC:

-TC: 0-10V&PWM dimmable version comes with an extra two wires +Purple/-Grey on the output side. See page 3 for additional

specifications.

-TA: DALI dimming. See page3 for additional specifications.

-TE: Customized timeshare dimming. See page 3 for additional

specifications.

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Note:

1. All parameters NOT specially mentioned are measured at 230Vac input, rated load and 25 $^\circ\!\! \mathbb C$ of ambient temperature.

2. Specifications subject to change without notice.



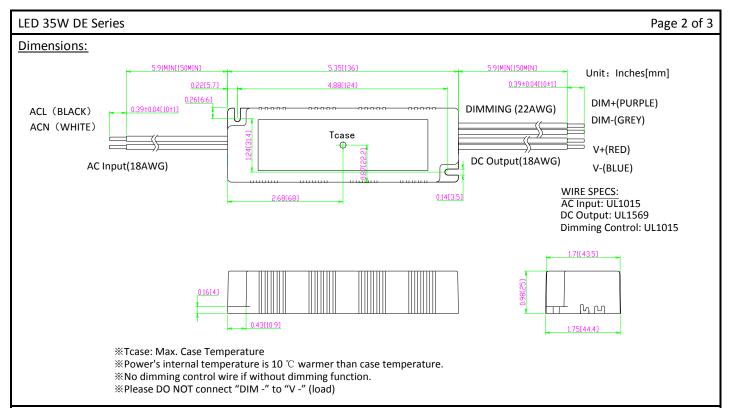
Constant Current – Product Specifications							
Model Number	Output Current	Output Voltage	Max. Output	Typical			
	(mA±3%)	Range (Vdc)	Power (W)	Efficiency			
DE035-100S035-YY	350	60~100	35	87%			
DE035-078S045-YY	450	47~78	35.1	87%			
DE035-048S070-YY	700	29~48	33.6	87%			
DE035-043S083-YY	830	26~43	35.7	86%			
DE035-036S105-YY	1050	22~36	37.8	86%			
DE035-028S120-YY	1200	17~28	33.6	86%			
DE035-024S140-YY	1400	14~24	33.6	86%			
DE035-020S175-YY	1750	12~20	35	86%			
DE035-016S210-YY	2100	10~16	33.6	85%			
DE035-015S245-YY	2450	9~15	36.8	85%			
DE035-012S280-YY	2800	7~12	33.6	84%			

-YY indicates dimming options are available. See options at left. Blank = fixed current output.

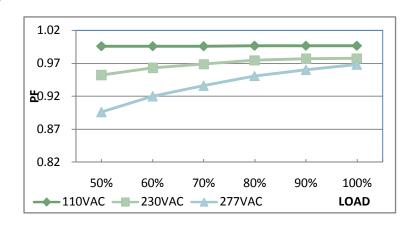
Constant Voltage– Product Specifications							
Model Number	Output Voltage	Output Current	Max. Output	Typical			
	(Vdc±5%)	Range (mA)	Power (W)	Efficiency			
DE035-100S035-YY	100	18~350	35	87%			
DE035-078S045-YY	78	23~450	35.1	87%			
DE035-048S070-YY	48	35~700	33.6	87%			
DE035-043S083-YY	43	42~830	35.7	86%			
DE035-036S105-YY	36	53~1050	37.8	86%			
DE035-028S120-YY	28	60~1200	33.6	86%			
DE035-024S140-YY	24	70~1400	33.6	86%			
DE035-020S175-YY	20	88~1750	35	86%			
DE035-016S210-YY	16	105~2100	33.6	85%			
DE035-015S245-YY	15	123~2450	36.8	85%			
DE035-012S280-YY	12	140~2800	33.6	84%			

2015-08-22

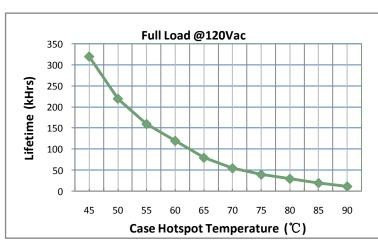




Power Factor vs Load



Lifetime vs Case Temperature





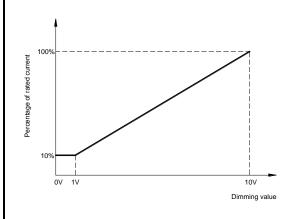
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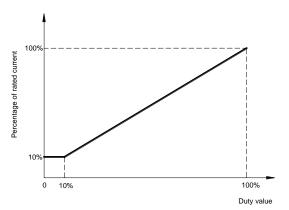
"-TC" option: 0-10V &PWM dimming

Parameters		Minimum	Typical	Maximum
Dimming Type	Voltage	-2V	0-10V	15V
	10V PWM(10%~100% f=200~1.5KHz)	-2V	0-10V	15V
Dimming Current		-0.5mA	-	0.5mA

 $\hbox{ 0-10Vdimming function for output current adjustment (Typical)}\\$

10V PWM signal for output current adjustment (Typical): Frequency range: 200Hz ~1.5KHz





"-TA" option: DALI dimming

- a. DALI Testing Software: Please refer to www.impowercorp.com for downloading.
- b. Percentage of rated current: 10%~100%.
- c. "TA" version LED Driver shall work with a DALI Master and DALI Master control software.



"-TE" option: Customized timeshare dimming.

- a. Different output current (10% 100% rate output current) can be set for different time periods.
- b. Maximum 4 sections is available. The minimum length is 0 to maximum 12 hours for each section.
- c. The parameter can't be changed after shipping.

This datasheet is for reference only. Impow reserves the right to final explanation of the technical materials.