

LED **25W** DE Series – Fixed Output and Dimmable Switch Mode LED Drivers Constant Current & Constant Voltage with Isolation Black Plastic Housing

Total Power: 25 Watts
Input Voltage: 110-277Vac
Outputs: Single from 7-72Vdc
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 @ 230 Vac, Cold Start 25°C
Input Current:	0.30A @ 100Vac
Maximum Power:	25 W
Line Regulation:	±1%
Load Regulation:	± 3%
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:	5% - 95%
Cooling:	Convection
Vibration Frequency:	10 to 300 Hz/1G, 60 minutes
MTBF:	443,000 Hours at full load and 30°C ambient conditions per MIL-HDBK-217F
EMC:	FCC 47CFR Part 15 Class B compliant

Ordering Options:

- 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:

- All parameters NOT specially mentioned are measured at 230Vac input, rated load and 25°C of ambient temperature.
- Specifications subject to change without notice.



Constant Current – Product Specifications

Model Number	Output Current (mA±3%)	Output Voltage Range (Vdc)	Max. Output Power (W)	Typical Efficiency
DE025-072S035-YY	350	43~72	25.2	86%
DE025-062S040-YY	400	37~62	24.8	85%
DE025-056S045-YY	450	34~56	25.2	84%
DE025-040S062-YY	620	24~40	24.8	84%
DE025-036S070-YY	700	22~36	25.2	84%
DE025-028S085-YY	850	17~28	23.8	83%
DE025-024S105-YY	1050	14~24	25.2	83%
DE025-020S125-YY	1250	12~20	25	83%
DE025-018S140-YY	1400	11~18	25.2	82%
DE025-015S175-YY	1750	9~15	26.3	82%
DE025-012S210-YY	2100	7~12	25.2	81%

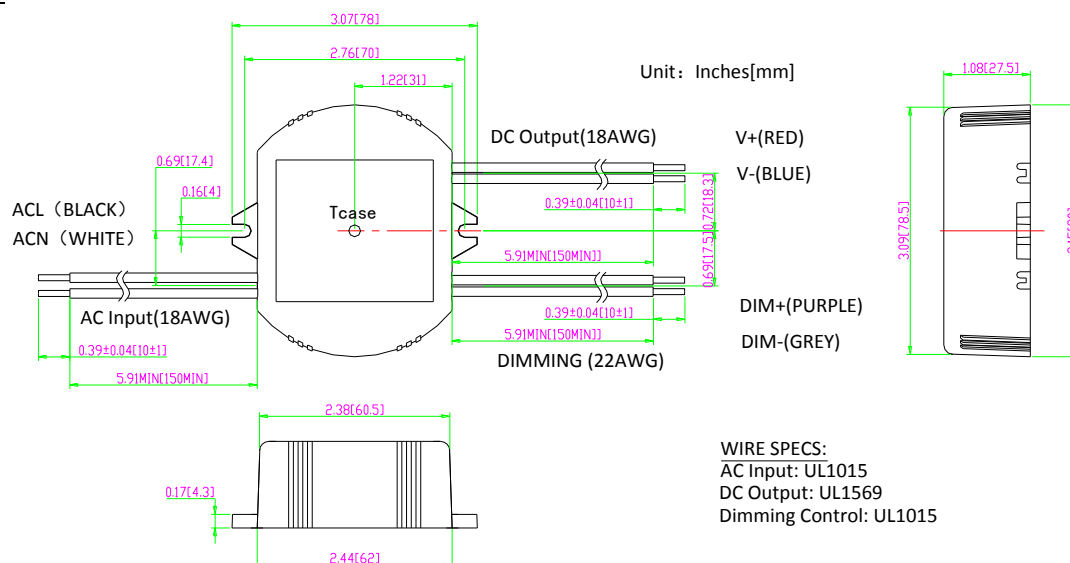
–YY indicates dimming options are available. See options at left. Blank = fixed current output.

Constant Voltage– Product Specifications

Model Number	Output Voltage (Vdc±5%)	Output Current Range (mA)	Max. Output Power (W)	Typical Efficiency
DE025-072S035-YY	72	18~350	25.2	86%
DE025-062S040-YY	62	20~400	24.8	85%
DE025-056S045-YY	56	23~450	25.2	84%
DE025-040S062-YY	40	31~620	24.8	84%
DE025-036S070-YY	36	35~700	25.2	84%
DE025-028S085-YY	28	43~850	23.8	83%
DE025-024S105-YY	24	53~1050	25.2	83%
DE025-020S125-YY	20	63~1250	25	83%
DE025-018S140-YY	18	70~1400	25.2	82%
DE025-015S175-YY	15	88~1750	26.3	82%
DE025-012S210-YY	12	105~2100	25.2	81%

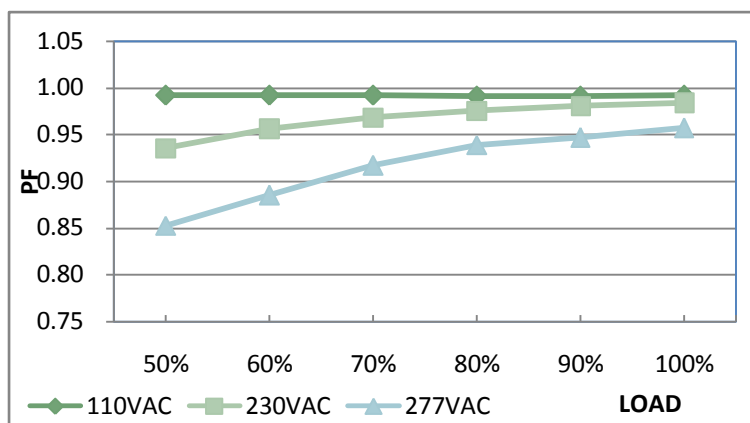
2015-08-22

Dimensions:

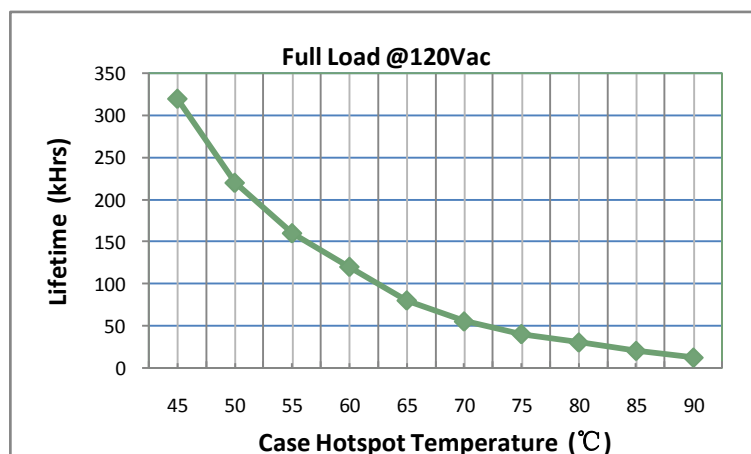


- ※Tcase: Max. Case Temperature
- ※Power's internal temperature is 10 °C warmer than case temperature.
- ※No dimming control wire if without dimming function.
- ※Please DO NOT connect "DIM -" to "V -" (load)

Power Factor vs Load



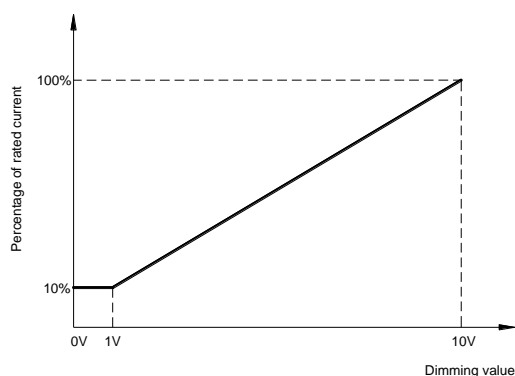
Lifetime vs Case Temperature



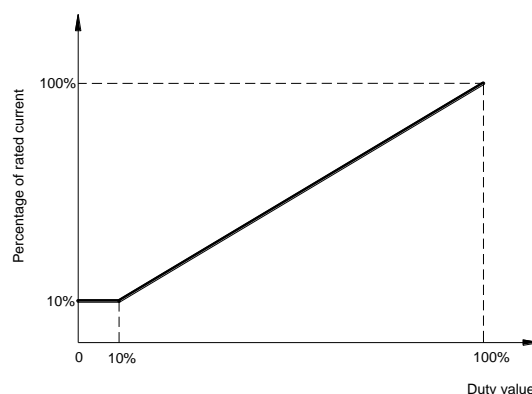
"-TC" option: 0-10V & PWM dimming

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

0-10V dimming function for output current adjustment (Typical)



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



"-TA" option: DALI dimming

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



"-TE" option: Customized timeshare dimming.

- Different output current (10% - 100% rate output current) can be set for different time periods.
- Maximum 4 sections is available. The minimum length is 0 to maximum 12 hours for each section.
- 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.