

<p>LED35W DE Series – Fixed Output and Dimmable Switch Mode LED Drivers Constant Current & Constant Voltage with Isolation Black Plastic Housing</p>	<p>Total Power: 35 Watts Input Voltage: 110-277Vac Outputs: Single from 7-100Vdc Indoor Application High Power Factor UL8750, UL1310 Class 2, EN61347, CSA 22.2 EN61000-3-2, EN61000-3-3 Class C</p>
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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 Start 25°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



Constant Current – Product Specifications

Model Number	Output Current (mA±3%)	Output Voltage Range (Vdc)	Max. Output Power (W)	Typical 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.

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: 423,000 Hours at full load and 30°C ambient conditions per MIL-HDBK-217F
 EMC: FCC 47CFR Part 15 Class B compliant

Constant Voltage– Product Specifications

Model Number	Output Voltage (Vdc±5%)	Output Current Range (mA)	Max. Output Power (W)	Typical 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%

Ordering Options:

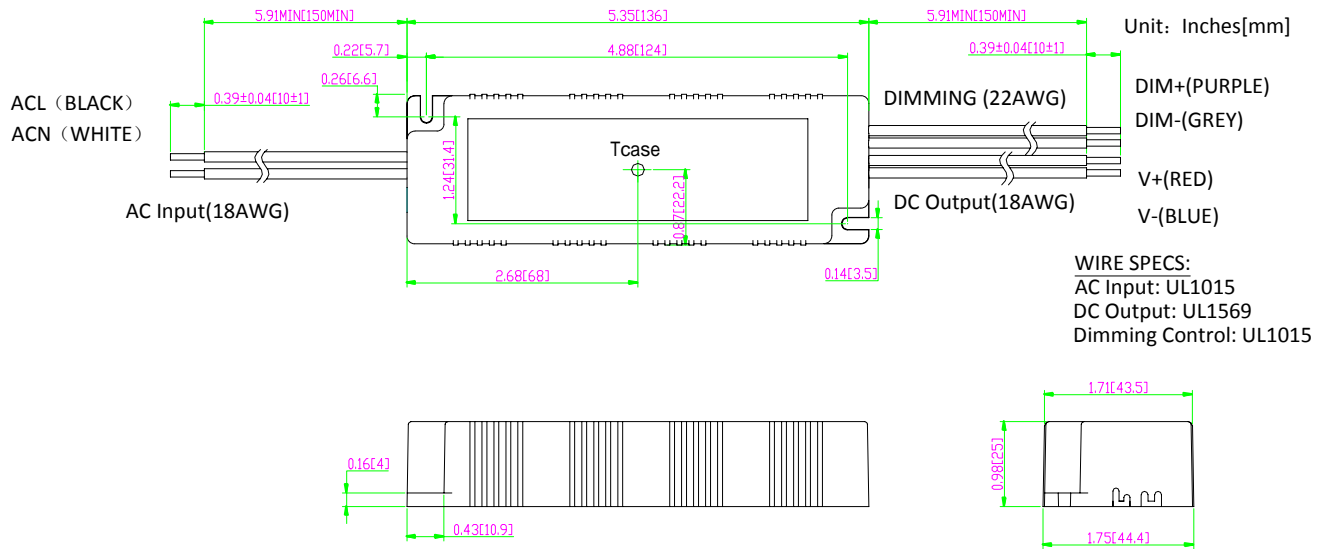
-TC: 0-10V&PWM dimmable version comes with an extra two wires +Purple/-Grey on the output side. See page3 for additional specifications.

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



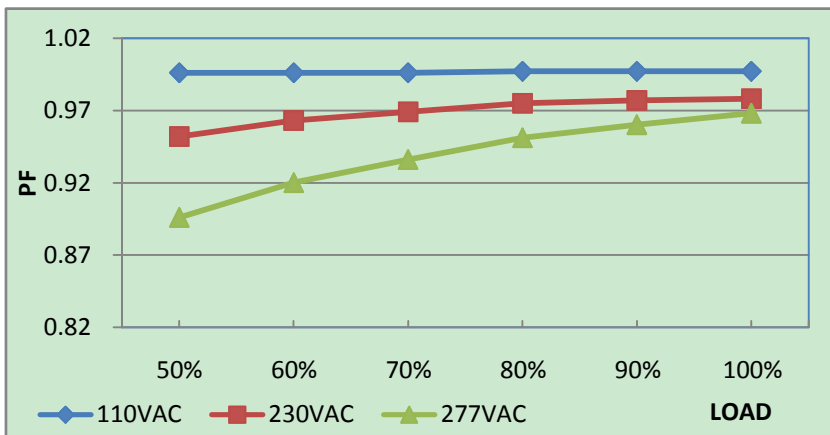
- Note:
- All parameters NOT specially mentioned are measured at 230Vac input, rated load and 25°C of ambient temperature.
 - Specifications subject to change without notice.

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



"-TA" option: DALI dimming

Percentage of rated current: 10%~100%

"TA" version LED driver shall work with a DALI Master and DALI Master control software.

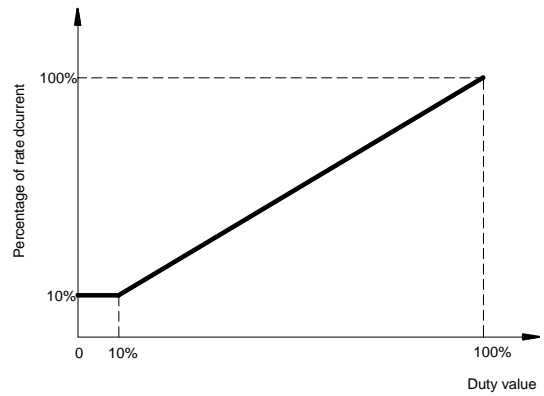
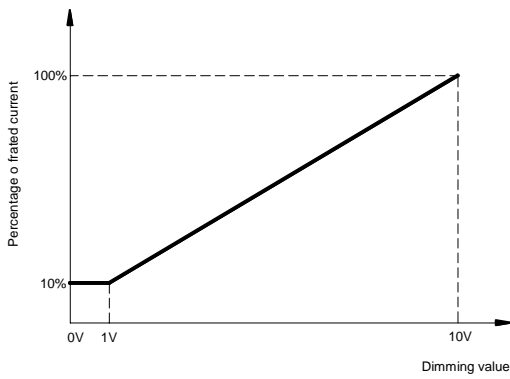


“-TC” option: 0-10V & PWM dimming

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



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