ImPow

LED **50W** DE Series – Fixed Output and Dimmable Switch Mode LED Drivers Constant Current & Constant Voltage with Isolation Black Plastic Housing

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 Start25°C			
Input Current:	0.52A @ 100 Vac			
Maximum Power:	50 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:	423,000 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.

IP65

Note:

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

2. Specifications subject to change without notice.

Total Power: 50 Watts Input Voltage: 110-277Vac Outputs: Single from 7-142Vdc Indoor Application High Power Factor EN61347, CSA 22.2 EN61000-3-2, EN61000-3-3 Class C



Constant Current – Product Specifications

Model Number	Output Current	Output Voltage	Max. Output	Typical
	(mA±3%)	Range (Vdc)	Power (W)	Efficiency
DE050-142S035-YY	350	85~142	49.7	89%
DE050-111S045-YY	450	67~111	50	89%
DE050-072S070-YY	700	43~72	50.4	88%
DE050-048S105-YY	1050	29~48	50.4	88%
DE050-036S140-YY	1400	22~36	50.4	87%
DE050-029S175-YY	1750	17~29	50.8	87%
DE050-024S210-YY	2100	14~24	50.4	87%
DE050-020S245-YY	2450	12~20	49	87%
DE050-018S280-YY	2800	11~18	50.4	86%
DE050-016S315-YY	3150	10~16	50.4	85%
DE050-012S420-YY	4200	7~12	50.4	84%

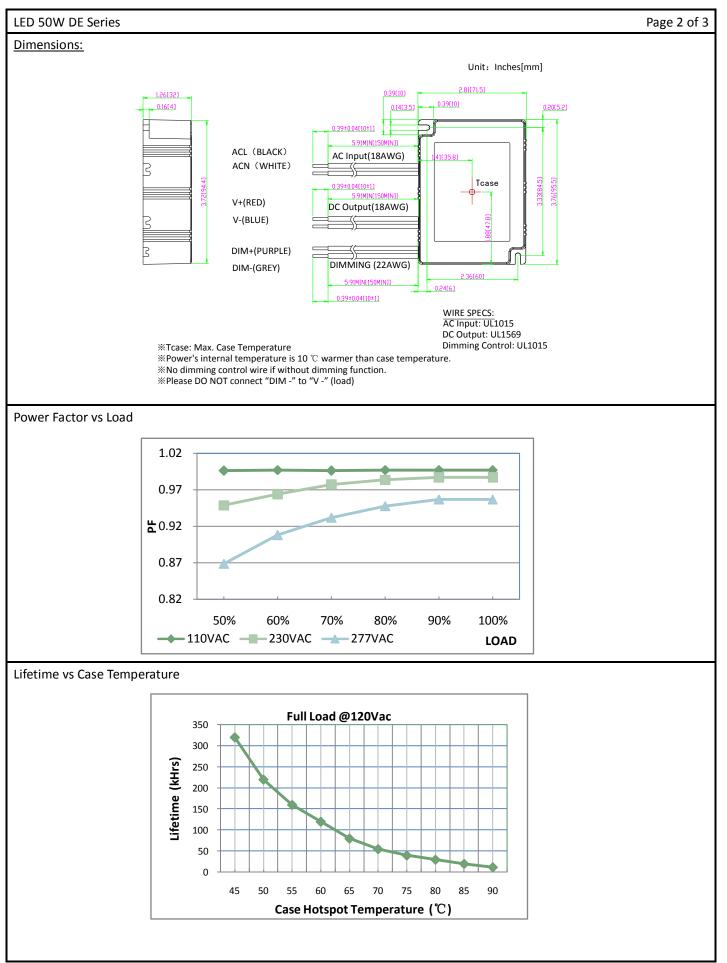
-YY indicates dimming options are available. See options at left. Blank = fixed current output.

Constant Voltage- Product Specifications Output Voltage Output Current Max. Output Typical Model Number Efficiency (Vdc±5%) Range (mA) Power (W) DE050-142S035-YY 89% 142 18~350 49.7 DE050-111S045-YY 23~450 50 89% 111 DE050-072S070-YY 72 35~700 50.4 88% DF050-0485105-YY 48 53~1050 504 88% DE050-036S140-YY 87% 36 70~1400 50.4 DE050-029S175-YY 29 88~1750 50.8 87% DE050-024S210-YY 24 105~2100 50.4 87% DE050-020S245-YY 20 123~2450 49 87% DE050-018S280-YY 18 140~2800 50.4 86% DE050-016S315-YY 16 158~3150 50.4 85% DE050-012S420-YY 12 210~4200 50.4 84%

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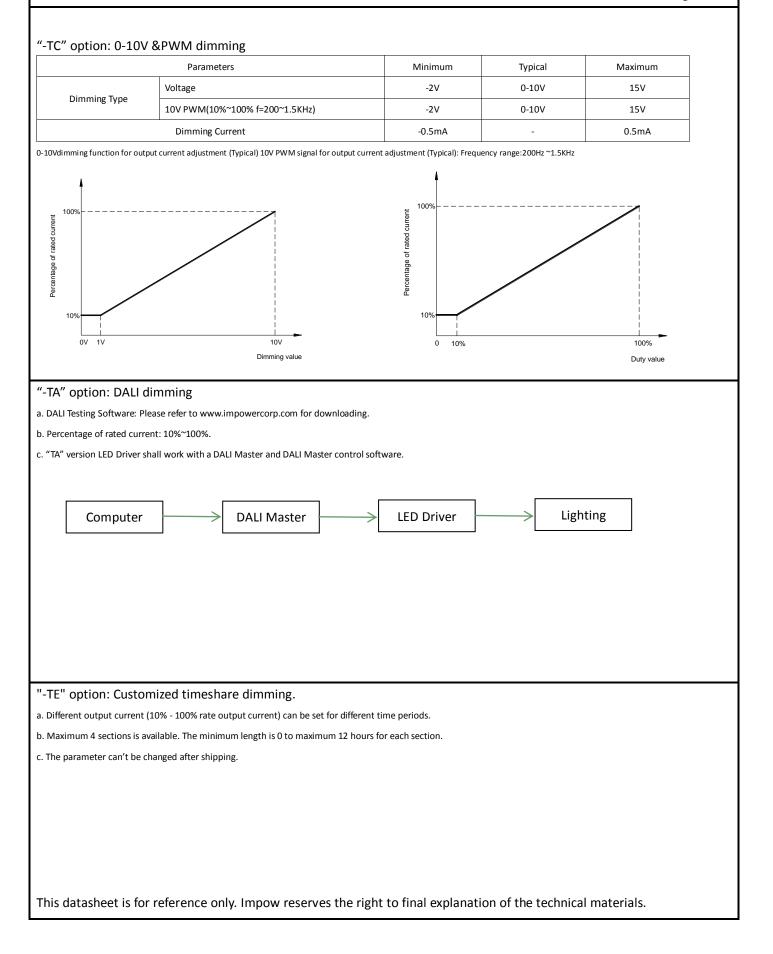


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