

■ Features

- Power Rating: 50W
- Input Voltage: 100-277Vac
- Constant current design
- Output current (800-1250mA)
- Efficiency up to 88%
- SCP, OCP
- 0-10V/PWM/RX dimming
- 0-100% dimming range, Dim-to-off
- SELV output design
- 5-year warranty
- Surge Protection:1KV



*Product images are for illustrative purposes only and may vary from actual design.

■ Application

- Indoor or Outdoor lights

■ Model List*(See part number scheme for model number details)

Model Number	Input Voltage Range	Output Power	Output Voltage	Output Current Min.	Output Current Max.	Efficiency 100/2330Vac	Certification
LFWCD050S080ST-L	100-277Vac	32W	25-40V	800mA	800mA	86%/87%	UL/cUL
LFWCD050S085ST-L	100-277Vac	34W	25-40V	850mA	850mA	86%/87%	UL/cUL
LFWCD050S090ST-L	100-277Vac	36W	25-40V	900mA	900mA	86%/87%	UL/cUL
LFWCD050S095ST-L	100-277Vac	38W	25-40V	950mA	950mA	86%/87%	UL/cUL
LFWCD050S100ST-L	100-277Vac	40W	25-40V	1000mA	1000mA	86%/87%	UL/cUL
LFWCD050S105ST-L	100-277Vac	42W	25-40V	1050mA	1050mA	86%/87%	UL/cUL
LFWCD050S110ST-L	100-277Vac	44W	25-40V	1100mA	1100mA	86%/87%	UL/cUL
LFWCD050S115ST-L	100-277Vac	46W	25-40V	1150mA	1150mA	86%/87%	UL/cUL
LFWCD050S120ST-L	100-277Vac	48W	25-40V	1200mA	1200mA	86%/87%	UL/cUL
LFWCD050S125ST-L	100-277Vac	50W	25-40V	1250mA	1250mA	86%/87%	UL/cUL

■ Technical Data

Input Voltage	100-277Vac
Input Frequency	50/60Hz
Input Current	600mA Max.@100-277Vac, 100% load
Inrush current	60Amax. @230Vac, 25°C
Power Factor	PF>0.9@115Vac/230Vac/277Vac, 100% load
THD	<20%@115Vac/230Vac/277Vac, 100% load
Current accuracy	5%Io
No load voltage	60Vmax., 2Wmax.
Efficiency	86%@100-277Vac & 100% load

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■ Technical Data(cont.)

Output Voltage	25-40V
Ripple and Noise	500mVp-p
Line regulation	3%lo
Load regulation	3%lo
Turn On Delay Time	1s
Short-Circuit Protection	The Driver's input power will decrease to less than 5W, when short circuit occurs. The driver will auto-recover when the fault is removed
Open Circuit Protection	When the maximum output voltage is reached, will enter hiccup mode and will go into self-recovery after fault condition is removed.
Operating Temperature	-20°C to +50°C
Relative Humidity	10%-90%
Altitude	Sea level to 2000m
Vibration	10 to 500HZ Sweep at constant acceleration of 1.0G (depth: 3.5mm) for 1 hour for each of the perpendicular axes X, Y,Z
Leakage Current	<0.25mA
Storage Temperature	-30°C to 70°C
Storage Humidity	10%-90%
Lifetime	≥50,000 hours@230Vac, 100% load
MTBF	≥200,000 hours@25°C @230Vac, 80% load (MIL-HDBK-217F)
Weight	210g
Dimensions	278x29.4x19.5mm
Packing	50pcs/carton; carton dimensions: 420x320x165mm

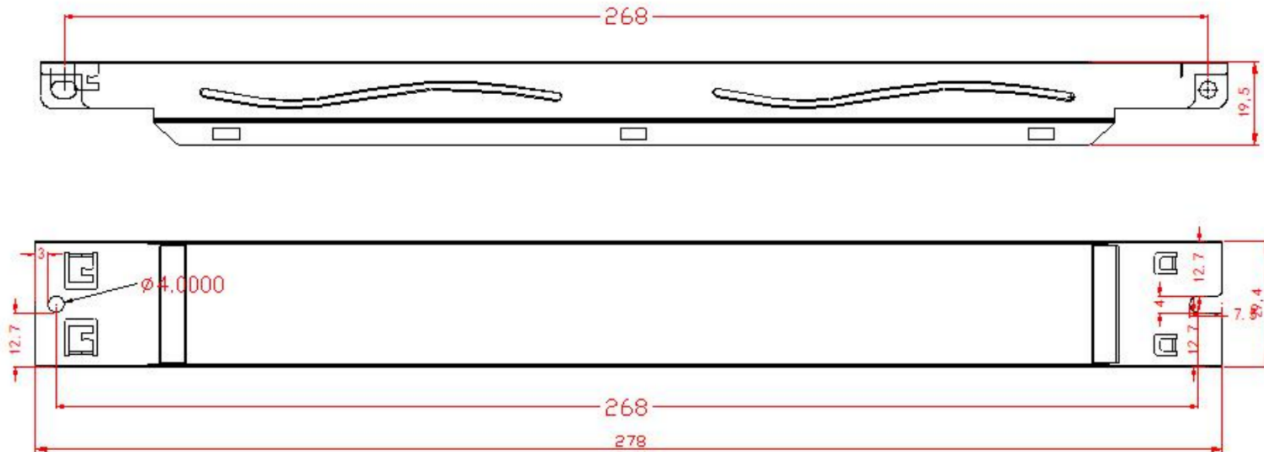
■ Safety Compliance

Safety	EN61347-1, EN61347-2-13; UL8750, CSA C22.2No.250.13-12
Insulation Resistance	Input to Output >100M Ohms/500Vdc/25°C/70%RH
Dielectric Strength Hi-Pot	Primary to Secondary: 3750; 5mA; 60S
	Primary to Earth: 1500; 5mA; 60S
	Secondary to Earth: 500; 5mA; 60S
EMI Compliance	EN55015, EN61000-3-2, EN61000-3-3
EMS Compliance	EN61000-4-2,3,4,5,6,8,11, EN61547
ESD	Severity Level 3/3 ±8KV, Severity Level 2/2 ±4KV
RF	80-1000MHZ; Severity Level 2/2 3V/M Performance Criterion A
EFT	Severity Level 2/2 1KV
Surge Immunity	Severity Level 2/2 1KV, Severity Level 3/3 2KV, Performance Criterion B

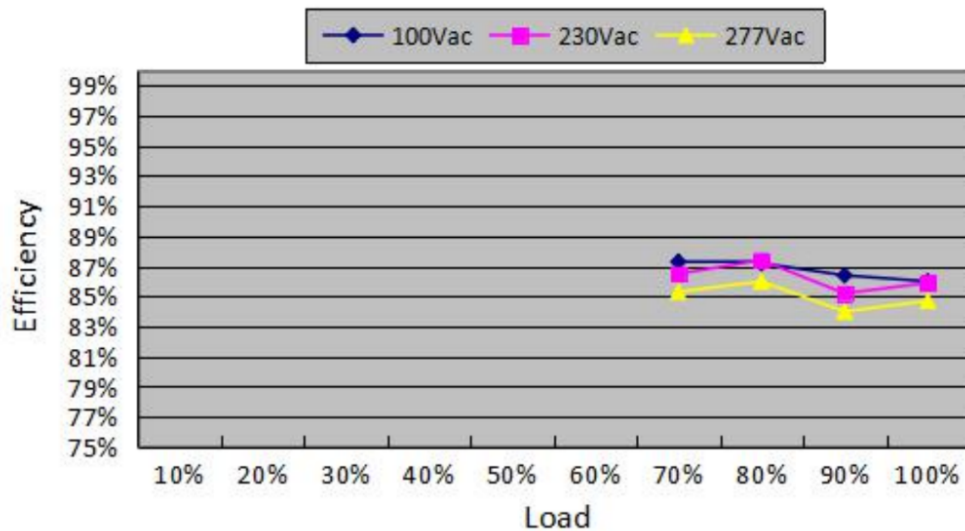
■ Dimming Feature

Dimming Function			0-10V			PWM			RX			
			✓			✓			✓			
0-10V	0	1	2	3	4	5	6	7	8	9	10	open
Ir	0	4.5%	16%	27%	38%	50%	62%	74%	85%	94%	99%	99%
PWM	0	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	open
Ir	0%	0%	14%	25%	37%	49%	61%	73%	85%	92%	99%	99%
RX	0	2.2K	3.6K	5K	7K	9K	12K	14.5K	18K	23.5K	50K	
IR	0	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	

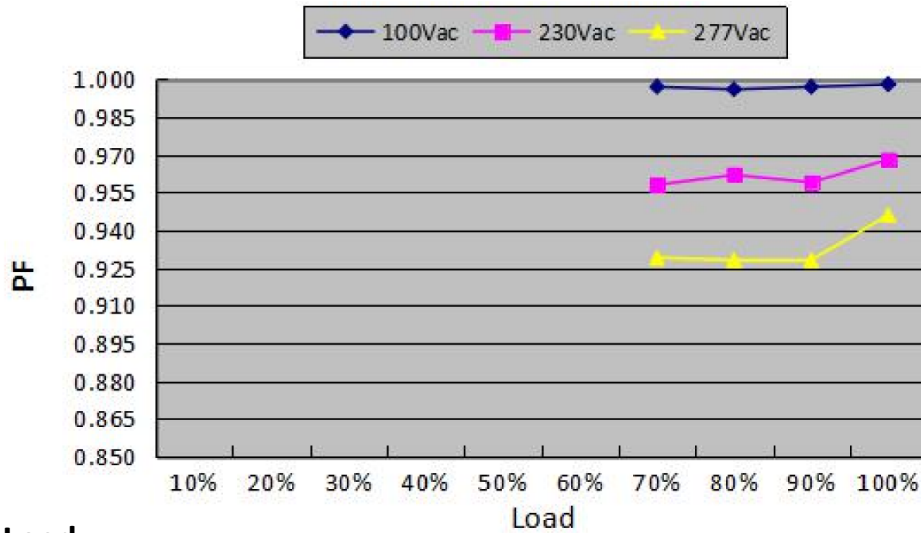
■ Mechanical Diagram



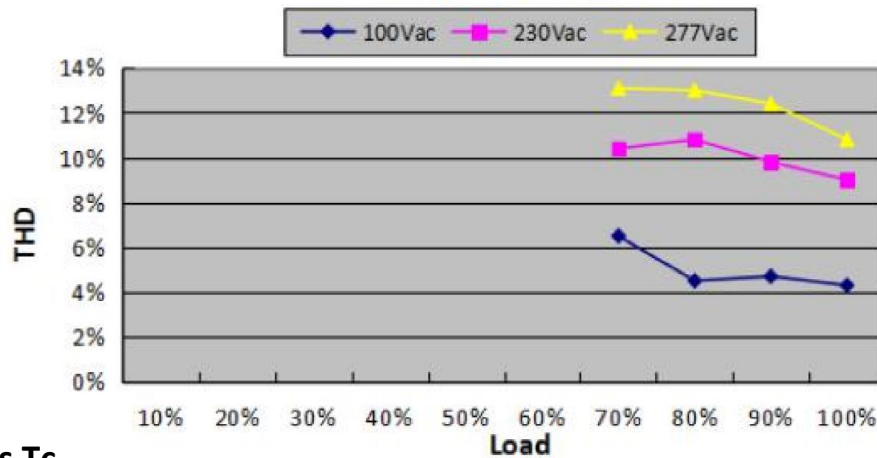
■ Efficiency vs. Load



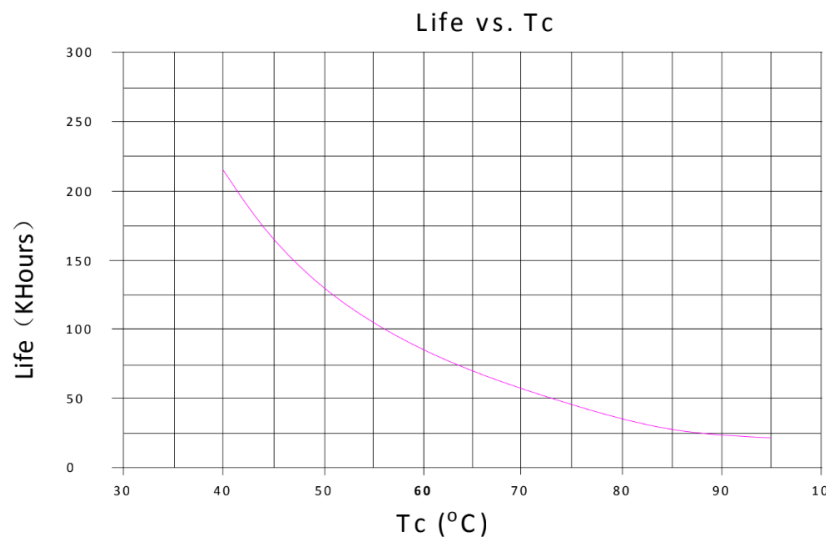
■ Power Factor vs. Load

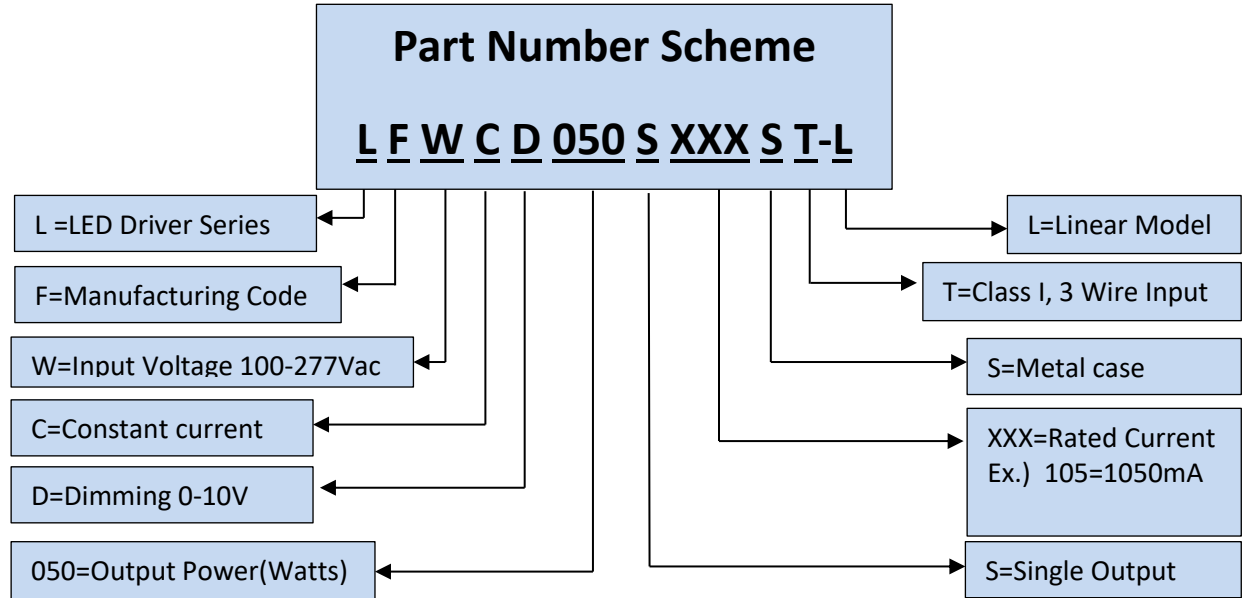


■ THD vs. Load



■ Lifetime vs Tc





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***Specifications are subject to change without notice. Autec is not responsible for issues arising from errors or omissions.**