

■ Features

- Power Rating: 21-42W
- Input Voltage: 100-277Vac
- Constant current design
- Fixed output current(500mA-1000mA)
- Efficiency to 86.9%
- 0-10V/PWM/RX Dimming
- Dimming range 0-100%
- Dim-to-off
- OCP, SCP
- UL Class II Protection, SELV output
- IP20
- 5-year warranty
- Surge Protection level L-N: 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	Certification
LFWCD042S050SS-PM	100~277Vac	21W	25-42V	500mA	500mA	86.9%	UL
LFWCD042S060SS-PM	100~277Vac	25W	25-42V	600mA	600mA	86.9%	UL
LFWCD042S070SS-PM	100~277Vac	29W	25-42V	700mA	700mA	86.9%	UL
LFWCD042S090SS-PM	100~277Vac	38W	25-42V	900mA	900mA	86.9%	UL
LFWCD042S100SS-PM	100~277Vac	42W	25-42V	1000mA	1000mA	86.9%	UL

*Output currents of 100mA to 1050mA available for this series with 25-42V output voltage. Contact Autec Sales

■ Technical Data

Input voltage range	100~277Vac
Frequency	47-63Hz
Power factor	> 0.9 under 120~277Vac input with 80~100% load condition (for all output currents)
Inrush current	60A @230Vac
Max input current	500mA @100-277Vac & 100% load
Ripple & noise	500mVp-p
THD	< 20% under 120~277Vac input with 80~100% load condition (for all output currents)
Current accuracy	5%Io
No load voltage	50Vmax
Efficiency	85%@100-277Vac & 100% load (see charts)
Output Voltage	25-42V

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■ Technical Data(cont.)

Line regulation	3%I _o
Load regulation	3%I _o
Turn-on Delay Time	1s Max. at full load condition
Protection	Open circuit protection: Hiccup mode. Protection will trigger when load voltage exceeds specified output voltage and will auto recover after the fault mode is removed. Short circuit protection: Hiccup mode. Protection will trigger when short circuit and will auto recover after the fault mode is removed.
Operating Temperature	-20°C to +50°C
Operating Relative Humidity	10%RH to 90%RH
Storage Temperature	-30°C to +70°C
Storage Relative humidity	5%RH to 90%RH
Vibration	10 to 500Hz Sweep at constant acceleration of 1G (depth: 3.5mm) for 1 hour for each of the perpendicular axes x, y, z
Lifetime	≥50,000 hours@230Vac, 100% load
MTBF	≥200,000 hours at 25°C at 80% load (MIL-HDBK-217F)
Dimensions LxWxH	208x85x34.4mm 7.35x3.3x1.33in
Weight	457g
Packing	28pcs/carton; Carton 485x342x201mm

■ Safety Compliance

Safety Standard	GB19510.1, GB19510.14; EN61347-1, EN61347-2-13; UL8750, CSA C22.2 No. 250.13-12
Dielectric Strength	I/P-OP:3750Vac/5mA/60S
Insulation Resistance	I/P-O/P: > 10M Ohms/500Vdc/25°C/70% RH
Leakage Current	The leakage current shall be less than 0.25mA for Class 2 at maximum input voltage
EMI	GB17743, GB17625.1; EN55015, EN61000-3-2, EN61000-3-3
EMS	EN61000-4-2,3,4,5,6,8,11, EN61547

Notes:

1. The parameters above including the power factor, THD, efficiency are all tested under the ambient temperature 25°C and humidity 50%, AC input 230V and 90% output load.
2. I_o is rated output current.

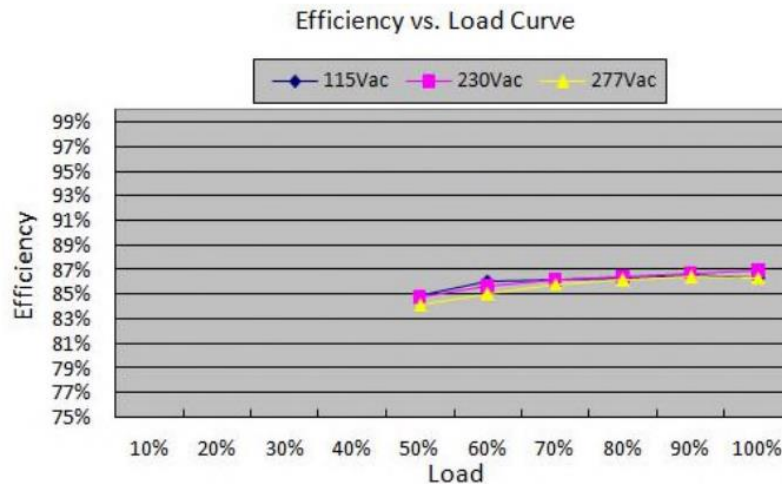
■ Dimming Features

Dimming Function			0-10V			PWM			RX			
			✓			✓			✓			
%	0	10	20	30	40	50	60	70	80	90	100	open
0-10V	0	9.4%	21.65%	33.23%	45.29%	57.64%	69.8%	82.05%	94.01%	100%	100%	100%
PWM	0	10.92%	25.54%	39.31%	52.04%	64%	75.02%	85.37%	94.58%	100%	100%	100%
RX	0	9.4%	21.65%	32.23%	45.29%	57.64%	69.8%	82.05%	94.01%	100%	100%	100%

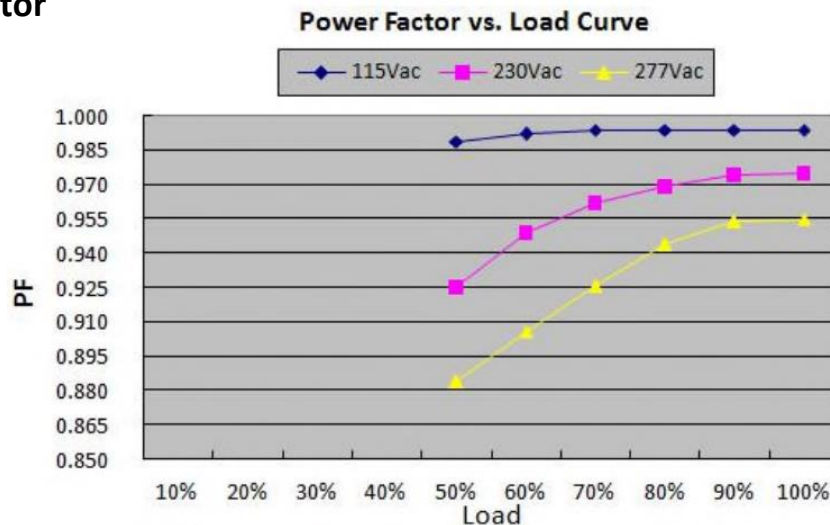
Notes:

1. % refers to the percentage of the dimming signal.
2. 0-10V, PWM, RX refers to three different dimming functions, the percentage of the output current for the corresponding dimming signal percentages.

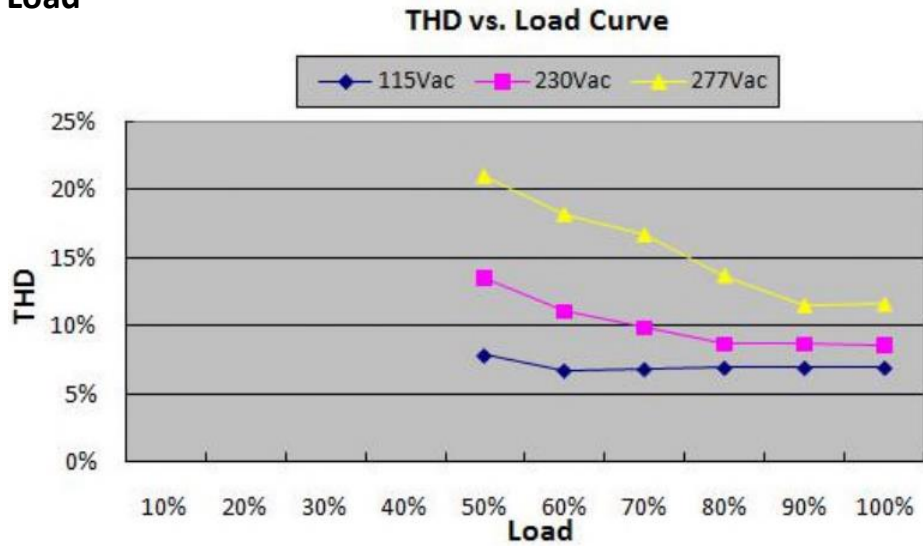
■ Efficiency vs Load



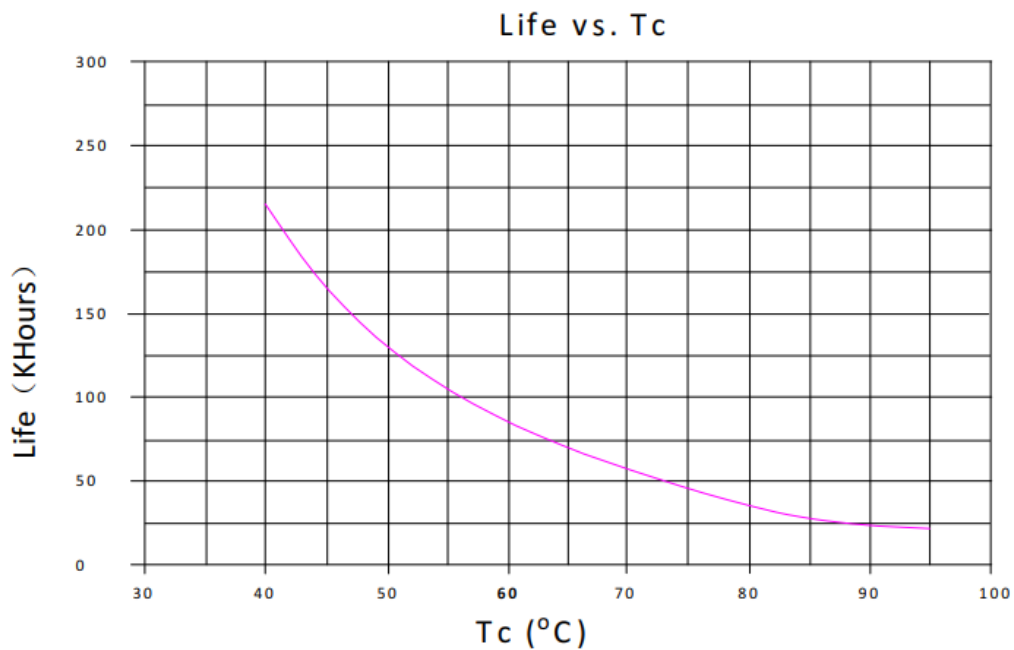
■ Power Factor

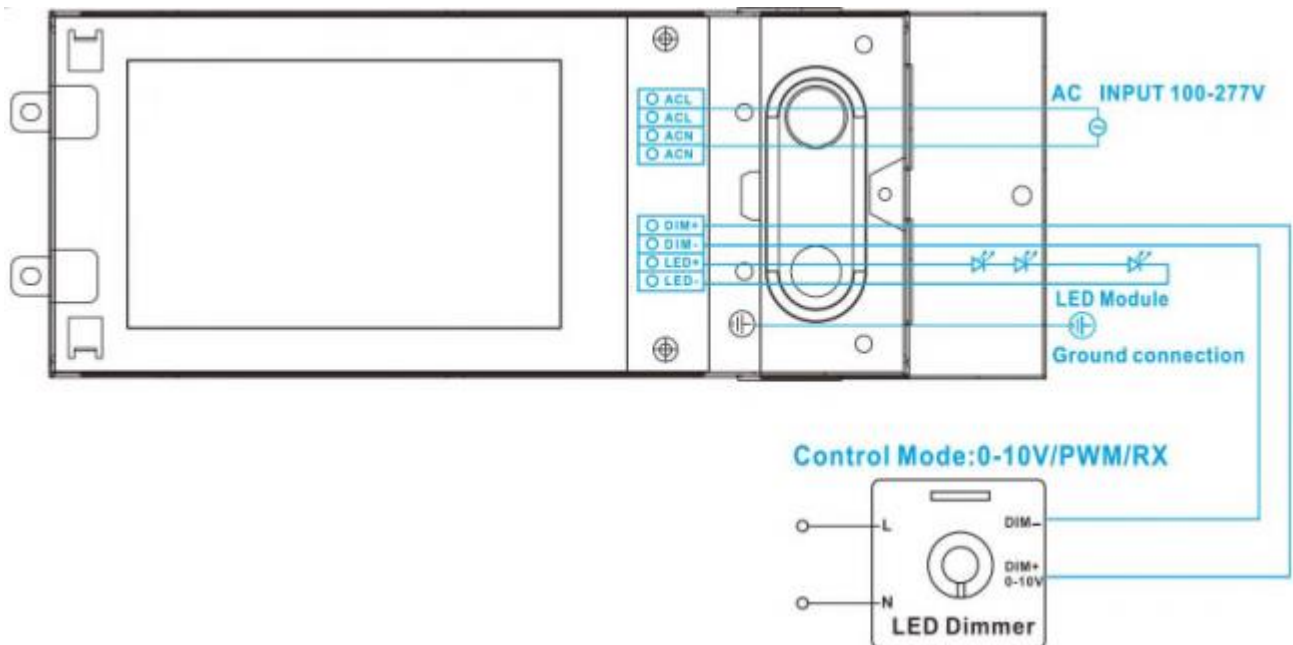


■ THD vs Load

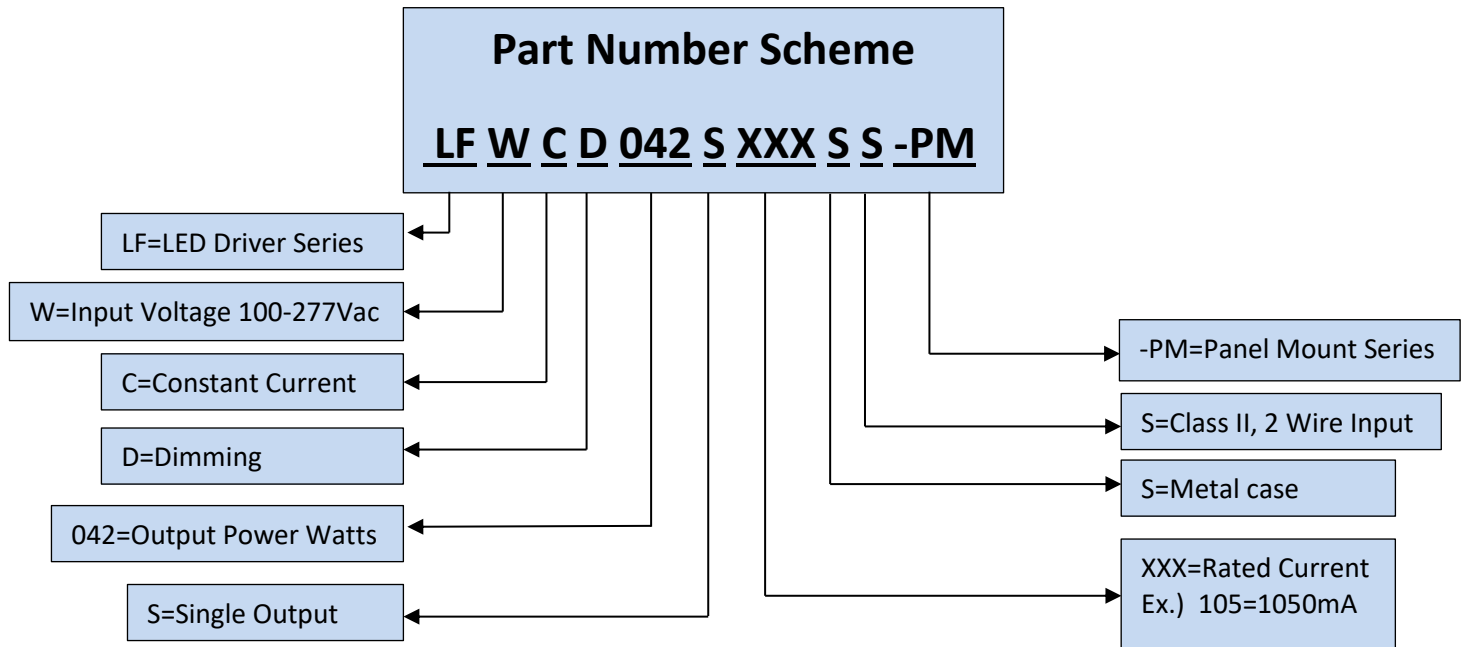


■ Life vs. Tc





5 / 6



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