

■ Features

- Power Rating: 42W
- Input Voltage: 100-347Vac
- Constant current design
- Adjustable output current(660mA-1050mA)
- Current selectable through DIP switch
- Efficiency to 87%
- 0-10V/PWM/Timer Dimming
- Dimming range 0-100%, flicker free
- Dim-to-off
- OCP, SCP
- UL Class P / Class 2
- 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
- Dry or Damp locations

■ 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
LFHCP042S105SS-PM	100-347Vac	42W	25-42V	660mA	1050mA	87%	UL

■ Technical Data

Input voltage range	100-347Vac
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%lo
No load voltage	50Vmax
Efficiency	85%@100-277Vac & 100% load (see charts)
Output Voltage	25-42V
Line regulation	3%lo
Load regulation	3%lo

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■ Technical Data(cont.)

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 +50C
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	208x85x33.7mm
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. Io is rated output current.

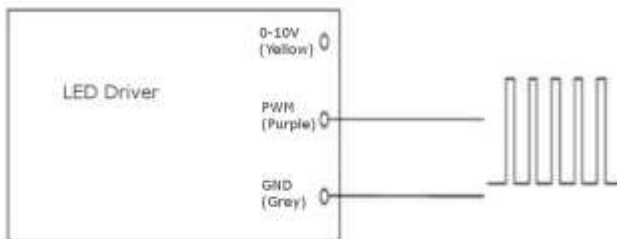
■ Dimming Features

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%

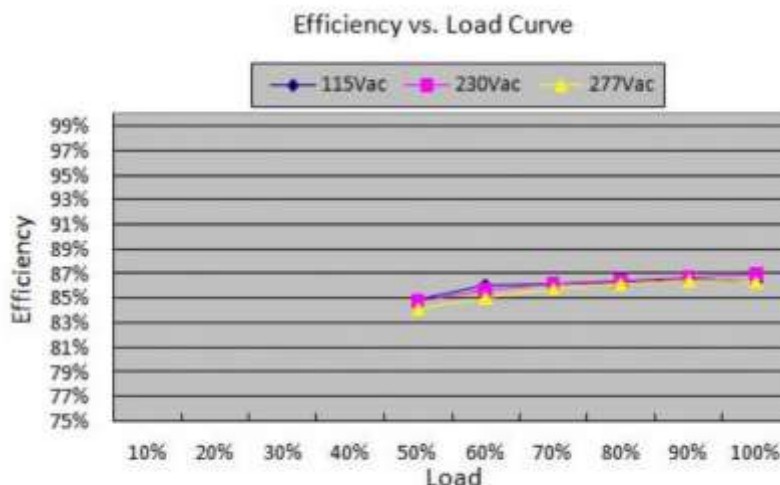
Notes:

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.

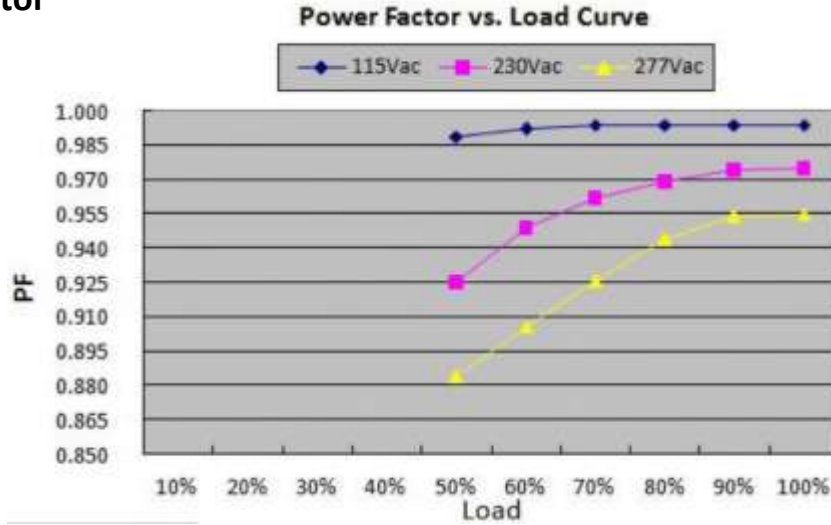
■ PWM Dimming



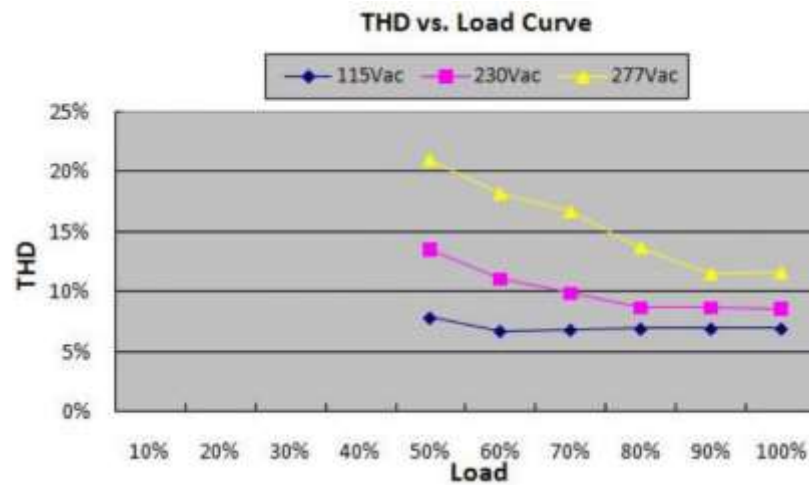
■ Efficiency vs Load



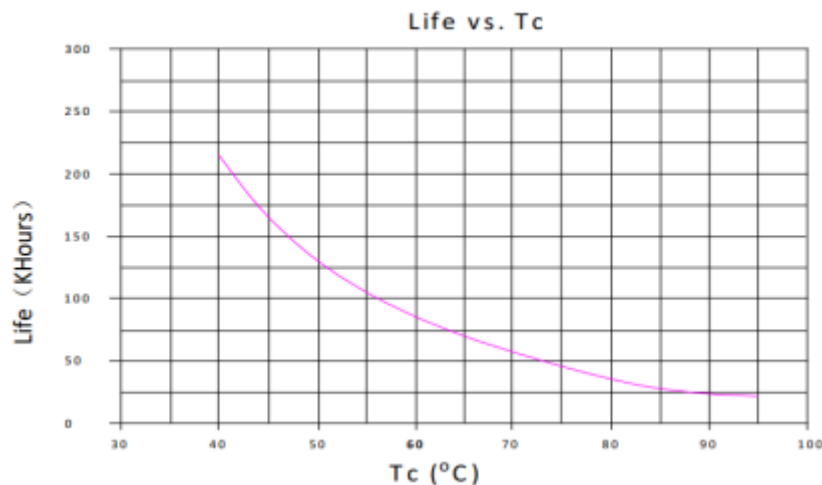
■ Power Factor



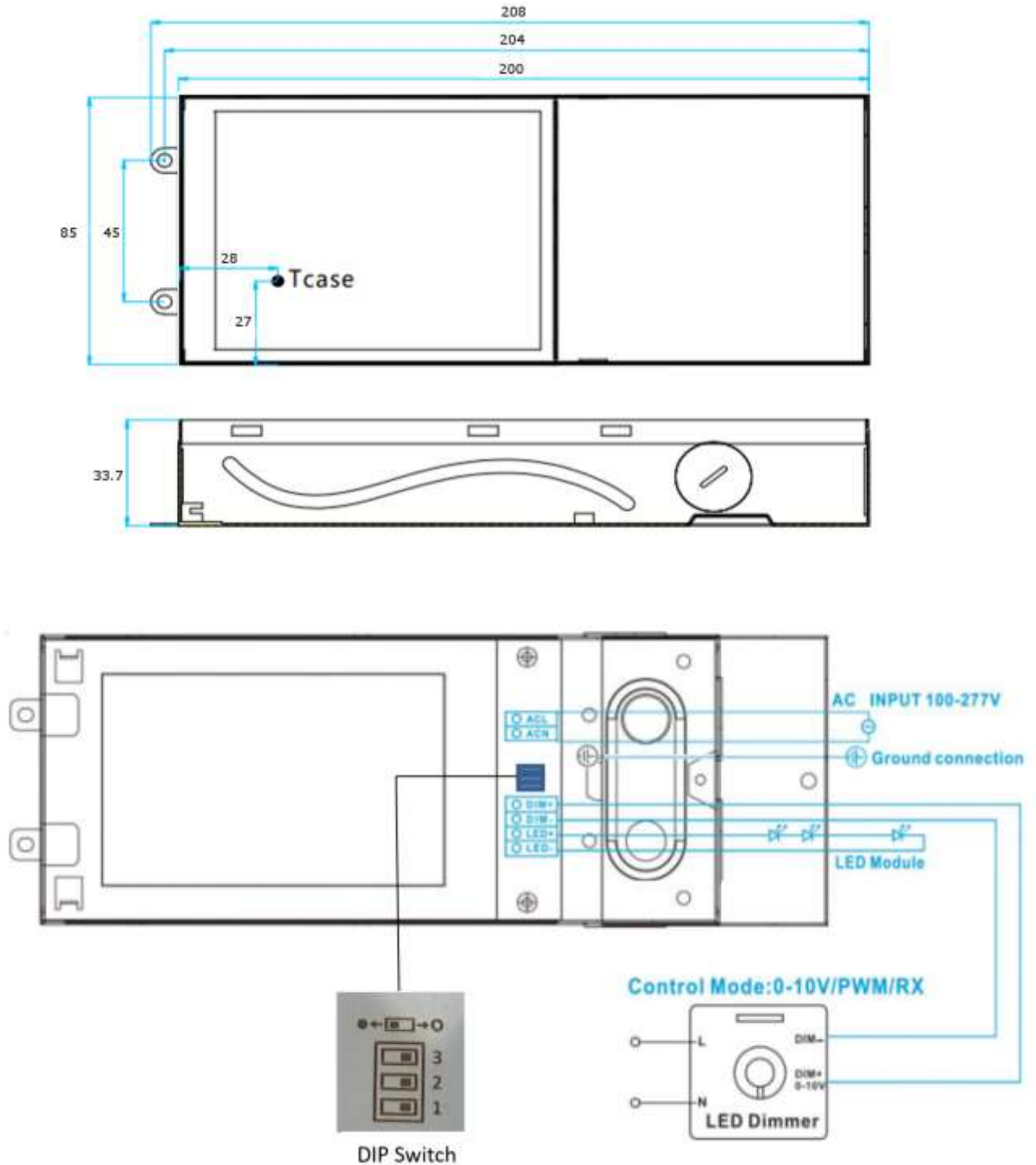
■ THD vs Load

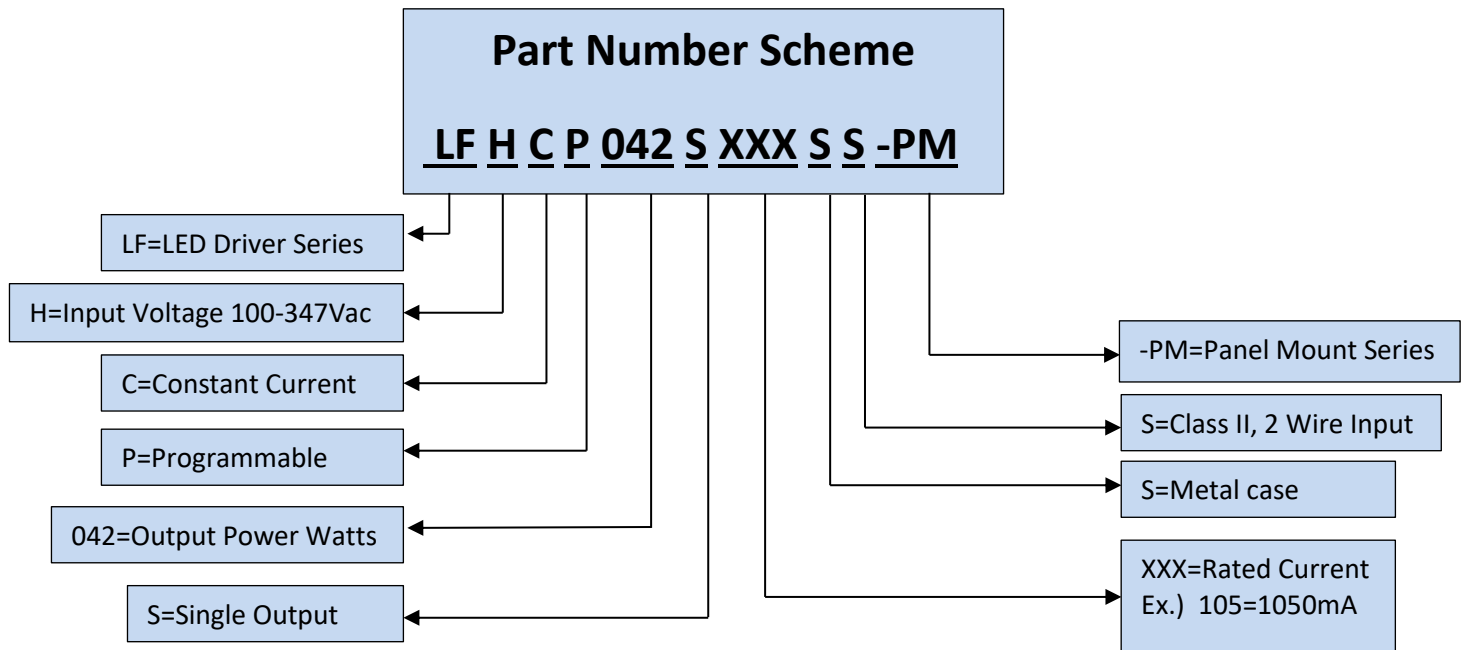


■ Life vs. Tc



■ Mechanical Diagram





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