

# 50W Linear IOT Dip Switch Driver

## Features

- Suitable for LED Indoor Application
- **Complied with latest Enlighted Sensor Interface V4.8**
- **Designed to work with all kinds of lighting controls, from low cost 0-10V to high end IoT sensing system**
- **Provide complete solution to smart building IoT-Ready latest interface standard**
- Dimming Range 1-100% via smart module interface
- High Reliability & Long Life up to 100,000hrs



Fig.	000	001	010	011	100	101	110	111
Switch Setting	0 0 0	0 0 1	0 1 0	0 1 1	1 0 0	1 0 1	1 1 0	1 1 1
I <sub>o</sub>	540mA	656mA	700mA	850mA	950mA	990mA	1100mA	1400mA
V <sub>o</sub> (max)	45V	45V	45V	45V	45V	45V	45V	37V



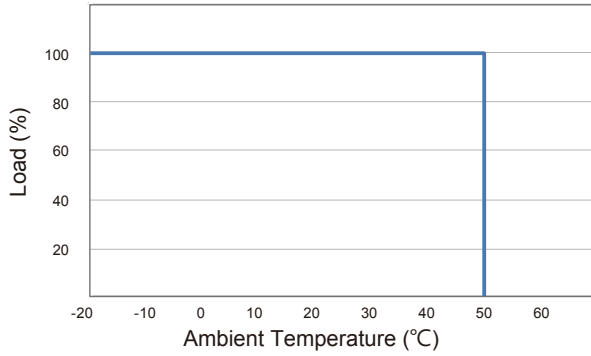
## SPECIFICATIONS

Model Name		FSP50IWCS045M
Output	Rated Power	50W max.
	Output Voltage	27-45V
	Rated Current	540mA-1400mA (Through Dip Switch Function)
	Output Current Accuracy	±5%
	Line Regulation	±1.0%
	Ripple Current	±5%
	Turn On Delay Time,Rise Input	≤1s max ;≤300ms max
Input	Voltage/ Frequency[3]	100~264Vac/ 47~63Hz (Please refer to Static Curve)
	Power Factor (typ.)	PF ≥ 0.99 @ 120Vac input & full load. PF ≥ 0.94 @ 277Vac input & full load.
	Efficiency (max.)	85% @ 120Vac input & full load. 87% @ 277Vac input & full load.
	Total Harmonic Distortion	THD <10% (Output Loading ≥ 50% @ 120Vac) THD <15% (Output Loading ≥ 50% @ 277Vac)
	AC Current (typ.)	≤ 0.56A /120Vac; ≤ 0.3A /230Vac; ≤ 0.27A /277Vac
	Inrush Current (typ.)	120Vac / 60Hz at full load ≤ 6A 230Vac / 60Hz at full load ≤ 11A 277Vac / 60Hz at full load ≤ 13A
	Leakage Current	≤ 0.5mA/230Vac
Environment	Operating Temperature	-20°C ~ +50°C (Please refer to Static Curve)
	Operating Humidity	10~95% RH non-condensing
	Storage Temperature, Humidity	-20°C~+85°C, 5~95%RH
	Vibration	0.02g <sup>2</sup> /Hz at 5 Hz sloping to 0.04g <sup>2</sup> /Hz at 20 Hz, and maintaining 0.04g <sup>2</sup> /Hz from 20 Hz to 500 Hz at a constant acceleration of 4.43G for 30 minutes per axis for all three axes
Protection	Max. Open Load Protection	<60V
	Open Voltage Protection	Recovers automatically after fault condition is removed
	Short Circuit Protection	Recovers automatically after fault condition is removed
	Over Temperature Protection	Recovers automatically after fault condition is removed
Safety & EMC	Safety Standards	Design Refer to EN61347-1, EN61347-2-13, UL8750
	EMC Standard	Compliant with EN55015/CISPR22 CLASS B, Compliant with EN61000-3-2 Class C (≥80% load), EN61000-3-3
	Surge Protection	Differential Mode: 2.5KV; Common Mode: 2.5KV
	Withstand Voltage (Hipot)	I/P-O/P 3000Vac, I/P-CASE 1500Vac
Others	Isolation Resistance	I/P-O/P: 100M ohm @ 500Vdc/ 25°C
	Life Time [4]	50,000 hours at Tcase of ≤ 80°C
	Dimension (LxWxH)	360 x 30 x 25.4 mm
	Net Weight / Packing	400g/35pcs
	Dimming Range	1-100%

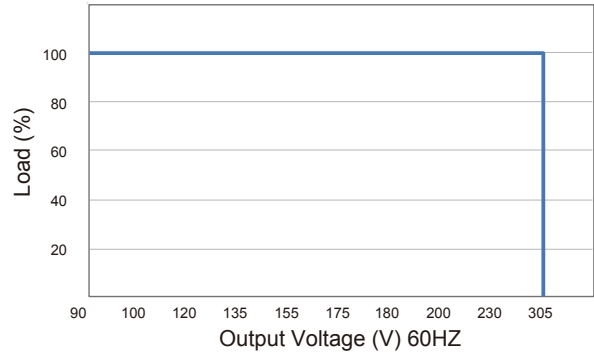
Notes:

1. All data NOT specially mentioned are measured at 230Vac/ 50Hz input, full load and 25°C of ambient temperature
2. The ripple current must be measured under the condition of AC coupling & 20MHz bandwidth. (Rated input and rated output)
3. Derating may be needed under low input voltages. Please check the static characteristics for more details
4. Measured at 230Vac/50Hz input, 80% load
5. The power supply is considered as a component that will be operated in combination with final equipment. Since EMC performance will be affected by the complete installation, the final equipment manufacturers must re-qualify EMC Directive on the complete installation again.

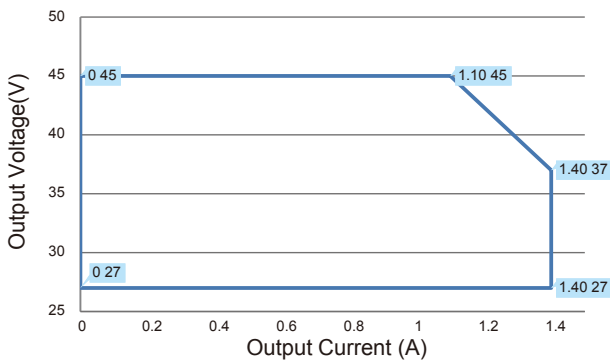
Derating Curve



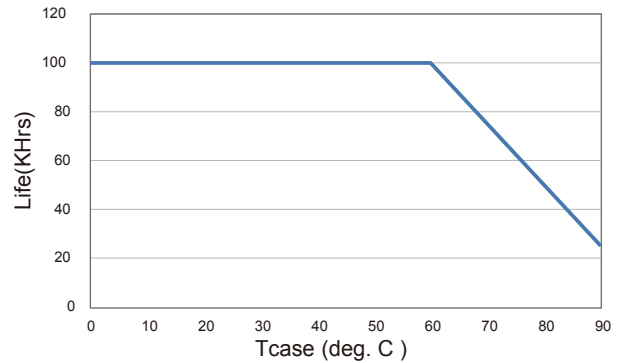
Static Curve



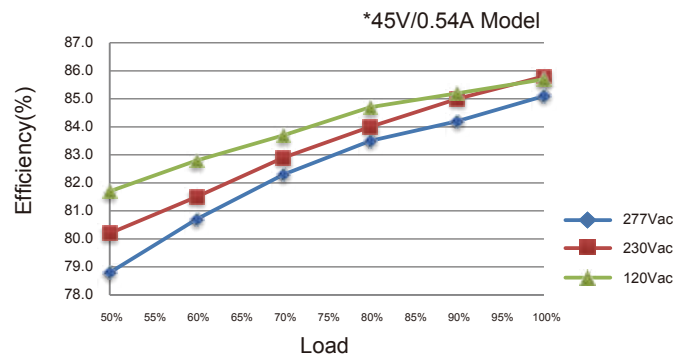
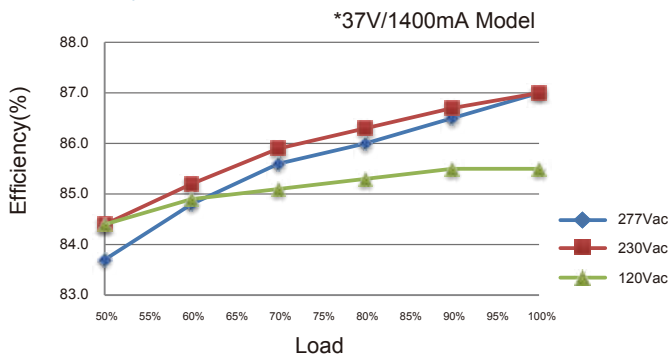
I-V Operating Area



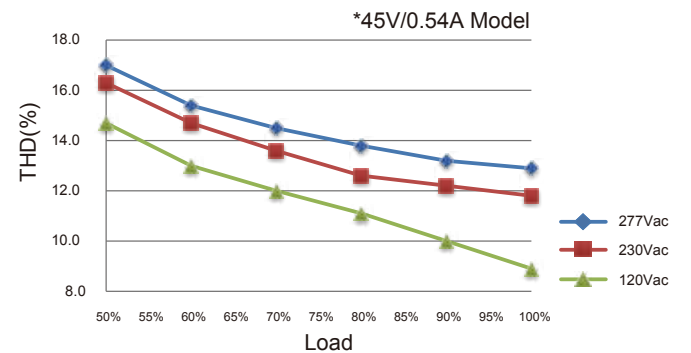
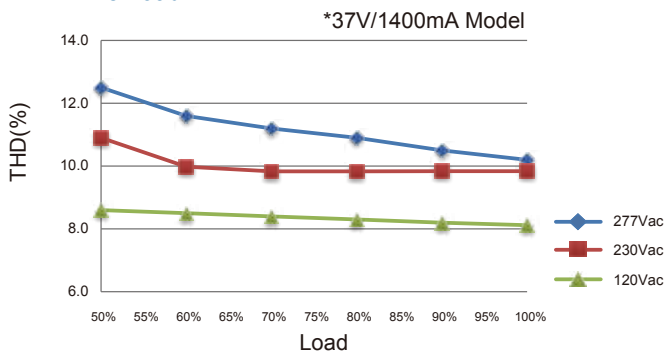
Life Time



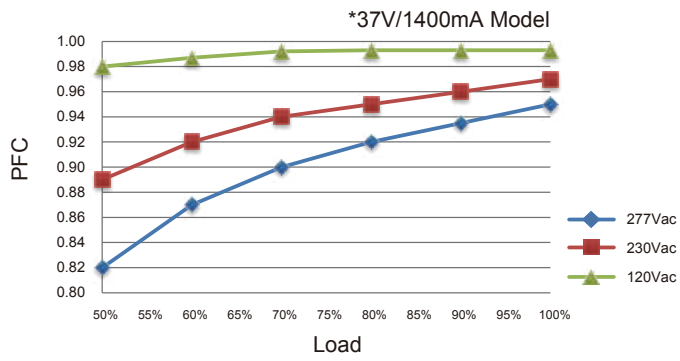
Efficiency



THD vs Load



PFC vs Load



MECHANICAL DIMENSION

