



40W High Efficiency Driver

1. Product description

Isolated LED driver designed for class I LED luminaires.

Category: AC100-277V linear metal case, flicker-free version. Product properties: active PFC, high PF, high efficiency, low THD, flicker-free. Application: tri-proof lights, grid lights and other linear shape lights. Warranty: 3 years (please refer to the warranty condition).



2. Technical data (1)

	Full model number	FSP040IUCS040M(60)	FSP040IUCS040M(70)	FSP040IUCS040M(80)	FSP040IUCS040M(90			
	Output voltage	27-40 VDC						
Output	Output current	600mA	700mA	800mA	900mA			
	Ripple voltage	<2V						
	Current tolerance	±5%						
	Time to light	100Vac<1S 230Vac<0.5S 277ac<0.5S						
	Temperature drift	±10%						
	Output Line regulation	±5%						
Input	Input Line regulation	±5%						
	Rated input voltage	100-240 Vac, 277 Vac (Max input voltage: 90-305Vac)						
	Frequency	47Hz-63Hz						
	Input current	0.7A Max						
		≥0.96/100Vac						
	Power factor	≥0.92/230Vac						
		≥0.90/277Vac						
	THD	≤20% at AC230V						
	Efficiency	≥84%/100Vac						
		≥85%/230Vac						
		≥85%/277Vac						
	In-rush current (peak /duration)	I<60A/250uS@230Vac						
	Typ. power input on stand-by	Pin<1W						
Protective	No-load	Max. output voltage (no-load voltage) 55V						
eatures	Short-circuit	Hiccup mode (auto-recovery)						
	Working temperature	-30°C - +50°C						
Environment	Working humidity	20-90%RH (no condensation)						
condition	Storage temperature/humidity	-40°C ~ +80°C (6 months under the class I environment); 10-90%RH (no condensation)						
	Atmospheric pressure	86-106KPa						
	Certifications	CB, TUV, CE, RCM, UL, FCC						
	Hi-pot test	I/P-O/P: 3.75KVac, <5mA, 60S I/P-PG:1.6KVac, < 5mA, 60S						
Safety and norms	Insulation resistance	I/P-O/P: 500VDC, >100MΩ						
	Surge level	Comply with IEC61000-4-5(L/N:2KV,L/PG:4KV,N/PG:4KV)						
	EMI	Comply with EN55015, EN61000-3-2.						
	EMS	Comply with EN61000-4-2, 3, 4, 5, 6, 8, 11; EN61547.						
Others	Packing (weight)	Net weight: 195g±5%/pc; 36pcs/carton; 8.0KG±5%/carton. Carton size: 39 x 29 x 21 cm (L xWxH)						
	IP level	/						
	Warranty condition	3 years (Max. case temperature must not exceed 70°C).						
Fest conditions	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.							
Additional Remark		power supply circuit, it is recommended that the customer should install an over-under-voltage protection and surge protectio ensure the safety of using electricity.						



The PC cover, shell, end caps used together with the LED driver inside the LED lamp must meet the UL94V-0 fire rating level or above.
 As a part of the LED lamp, the LED driver is not the only factor determining the EMC performance of the LED lamp. And the EMC performance is also related to the LED lamp's structure and the wire routing. Thus we strongly recommend the manufacturer of the finished LED lamp must re-confirm the EMC of the LED lamps.

Technical data (2)

	Full model number	FSP040IUCS040M(95)	FSP040IUCS040M(A0)				
	Output voltage	. ,					
Output	Output current	27-40 VDC 950mA 1000mA					
	Ripple voltage	<2V 3501174	1000111A				
	Current tolerance	<2V ±5%					
	Time to light	±5% 100Vac<1S 230Vac<0.5S 277ac<0.5S					
	Temperature drift	$\pm 10\%$					
	Output Line regulation	±10%					
	Input Line regulation	±5%					
	Rated input voltage	100-240 Vac, 277 Vac (Max input voltage: 90-305Vac)					
	Frequency	47Hz-63Hz					
	Input current	0.7A Max					
		≥0.96/100Vac					
	Power factor	≥0.95/230Vac					
		≥0.92/277Vac					
Input	THD	≤0.92127774dc ≤20% at AC230V					
		≥20% at AC230V ≥85%/100Vac					
	Efficiency	≥86%/230Vac					
		280%/270Vac					
	In-rush current (peak /duration)	I<60A/250uS@230Vac					
	Typ. power input on stand-by	Pin<1W					
Protective	No-load	Max. output voltage (no-load voltage) 55V					
features	Short-circuit	Hiccup mode (auto-recovery)					
Environment condition	Working temperature	-30°C - +50°C					
	Working humidity	20-90%RH (no condensation)					
	Storage temperature/humidity	-40°C ~ +80°C (6 months under the class I environment); 10-90%RH (no condensation)					
	Atmospheric pressure	86-106KPa					
	Certifications	CB, TUV, CE, RCM, UL, FCC					
	Hi-pot test	I/P-O/P: 3.75KVac, <5mA, 60S I/P-PG:1.6KVac, < 5mA,60S					
Safety and norms	Insulation resistance	I/P-O/P: 500VDC, >100MΩ					
norms	Surge level	Comply with IEC61000-4-5(L/N:2KV,L/PG:4KV,N/PG:4KV)					
	EMI	Comply with EN55015, EN61000-3-2.					
	EMS	Comply with EN61000-4-2, 3, 4, 5, 6, 8, 11; EN61547.					
	Packing (weight)	Net weight: 195g±5%/pc; 36pcs/carton; 8.0KG±5%/carton. Carton size: 39 x 29 x 21 cm (L xWxH).					
Others	IP level						
	Warranty condition	⁷ 3 years (Max. case temperature must not exceed 70°C).					
Tart			,				
Test conditions		meters above including the power factor, THD, efficiency are all tested under the ambient temperature 25° C and humidity					
Additional Remark	50%, AC input 230V and 90% output load.1. In the power supply circuit, it is recommended that the customer should install an over-under-voltage protection and surge protection						
	device to ensure the safety of using electricity.						
	2. The PC cover, shell, end caps used together with the LED driver inside the LED lamp must meet the UL94V-0 fire rating level or						
	above. 3. As a part of the LED lamp, the LED driver is not the only factor determining the EMC performance of the LED lamp. And the EMC performance is also related to the LED lamp's structure and the wire routing. Thus we strongly recommend the manufacturer of the finished LED lamp must re-confirm the EMC of the LED lamps.						



Technical data (3)

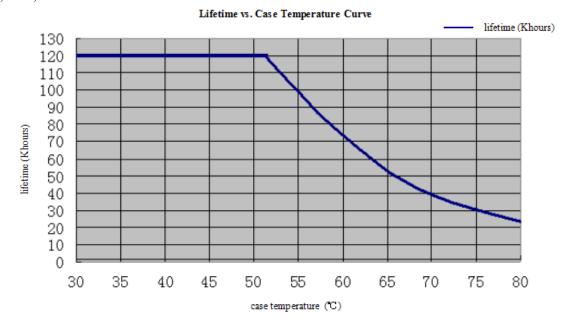
	Full model number	FSP040IUCS055M(50)	FSP040IUCS040M(60)	FSP040IUCS055M(75)		
	Output voltage		35-55VDC			
Output	Output current	500mA	600mA	750mA		
	Ripple voltage	< 1.5V	·	·		
	Current tolerance	±5%				
	Time to light	100Vac<1S 230Vac<0.5S 277ac<0.5S				
	Temperature drift	±10%				
	Output Line regulation	±5%				
	Input Line regulation	±5%				
	Rated input voltage	100-240 Vac, 277 Vac (Max input voltage: 90-305Vac)				
	Frequency	47Hz-63Hz				
	Input current	0.7A Max				
	Power factor	≥0.96/100Vac				
Input		≥0.94/230Vac				
		≥0.91/277Vac				
	THD	≤20% at AC230V				
		≥84%/100Vac				
	Efficiency	≥85%/230Vac				
		≥85%/277Vac				
	In-rush current (peak /duration)	I<60A/250uS@230Vac				
	Typ. power input on stand-by	Pin<1W				
Protective	No-load	Max. output voltage (no-load voltage) 70V				
features	Short-circuit	Hiccup mode (auto-recovery)				
	Working temperature	-30°C - +50°C				
Environment	Working humidity	20-90%RH (no condensation)				
condition	Storage temperature/humidity	-40° C ~ $+80^{\circ}$ C (6 months under the class I environment); 10-90%RH (no condensation)				
	Atmospheric pressure	86-106KPa				
	Certifications	CB, TUV, CE, RCM				
	Hi-pot test	I/P-O/P: 3.75KVac, <5mA, 60S I/P-PG:1.6KVac, < 5mA,60S				
Safety and	Insulation resistance	I/P-O/P: 500VDC, >100MΩ				
norms	Surge level	Comply with IEC61000-4-5(L/N:2KV,L/PG:4KV,N/PG:4KV)				
	EMI	Comply with EN55015, EN61000-3-2.				
	EMS	Comply with EN61000-4-2, 3, 4, 5, 6, 8, 11; EN61547.				
Others	Packing (weight)	Net weight: 195g±5%/pc; 36pcs/carton; 8.0KG±5%/carton. Carton size: 39 x 29 x 21 cm (L				
	IP level	xWxH). /				
	Warranty condition	3 years (Max. case temperature must not exceed 70°C).				
Гest	The parameters above in	cluding the power factor. THD, effi	iciency are all tested under the ambi	ent temperature 25° C and humidity		
conditions	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.					
Additional Remark	 Sov, RC input 250 v and 50% output load. I. In the power supply circuit, it is recommended that the customer should install an over-under-voltage protection and surge protection device to ensure the safety of using electricity. The PC cover, shell, end caps used together with the LED driver inside the LED lamp must meet the UL94V-0 fire rating level or above. As a part of the LED lamp, the LED driver is not the only factor determining the EMC performance of the LED lamp. And the EMC performance is also related to the LED lamp's structure and the wire routing. Thus we strongly recommend the manufacture of the finished LED lamp must re-confirm the EMC of the LED lamps. 					



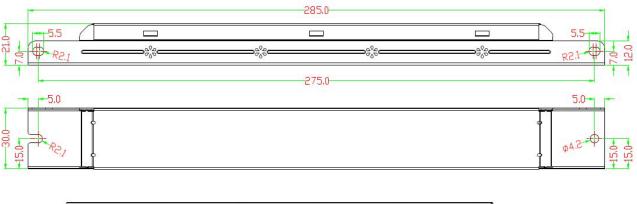


3. Product Referenced Lifetime Curve

The curve below illustrates the driver's lifetime data when the LED driver's Max. case temperature reaches 40° C, 45° C, 50° C, 55° C, 60° C, 70° C and 80° C.



4. Dimensional Drawing (unit: mm)





5. Wire Connection Diagram:

