

PRODUCT DATASHEET

LVED FP50/0.3-1.05/IP67 VS10 G2TR LEDV

FULL PROGRAMMABLE OUTDOOR DRIVER

AREAS OF APPLICATION

- Street and urban lighting
- Industry
- Suitable for outdoor applications in luminaires
- Suitable for use in outdoor luminaires of protection



PRODUCT FAMILY FEATURES

- Rated input voltage range 220~240Vac
- Constant power design, output current programming adjustable
- Offline programmable
- 3-in-1 dimmable: 1~10Vdc, PWM, Timer dimming
- Output and Dimming Signal Isolating
- Surge protection: DM 5KV, CM 10KV
- Protections: SCP, OVP, OTP
- IP67 design for indoor and outdoor applications
- Suitable for dry / damp / wet locations
- 5 years warranty

TECHNICAL DATA

General

Model Name	LVED FP 50/0.3-1.05/IP67 VS10 G2TR LEDV		
Driver Basic Code	-	Product Category	0 - 10V
Region	EU	Product Installation Type & Location	Independent
Certification and Report	CE (CE LVD, EMC, ROHS, Reach), ENEC	Glow Wire Test Temperature ACC / IEC 60695-2-11	-
Indoor / Outdoor	Outdoor	Contains Dangerous Good (Yes / No, If yes, list out)	Yes, with Sb ₂ O ₃ , BFRs, Lead
IP Level	IP67	Remote Control	No
Protection Class	Class I	Smell	No noticeable smell
Other Requirements	-		

Electrical Data

Requirement	Condition	Rated Value	Tolerance	Unit
Rated Input Voltage		220-240		VAC
Input Voltage Range		176-305		VAC
DC Input Voltage		/		VDC
Input Current		350	max	mA
Product Input Power		60	max	W
Stand-by Power		/		W
No Load Power		/		W
Rated Frequency		50 / 60	50 / 60	Hz
Start Time	240Vac, full load	1		s
Power Factor (PF)	220-240Vac, 50Hz, 70%-100% load	>0.95		
Displacement factor (DF)	Rated voltage	/		
Total harmonic distortion (THD)	Max Load	10	Max	%

Output Current	Steady state	700 - 1050		mA
Output Voltage		35-72		v
Auxiliary Output		/		
Output current/voltage tolerance	Full load and min load	±5		%
Output Power	Steady State	50	Max	W
Driver Efficiency	Full load	86	Min	%
Output ripple current percentage	Full load($(I_{max} - I_{min}) / (I_{max} + I_{min}) * 100\%$)	15	Max	%
Open circuit voltage(OCV)		90	Max	v
Open circuit frequency		/		KHz
Output frequency (only for ballast product)		/		KHz
PST/SVM		/		
Noise Level	Test at 20cm with noise testing equipment	/		dB
Dimming method and range	For all level load	10% - 100%		
Dimming input isolation or not(for Dali and 0-10v driver)			Yes	
Dimming Interface Protection(for Dali and 0-10v driver)			No	
Dim to off (for 0-10v driver)			Yes	
Surge Voltage capability	General requirement has to fulfill criteria A and B Otherwise, highlight it specially		L/N -PE: 6kV L/N: 4kV	
Voltage dip	General requirement has to fulfill criteria A and B Otherwise, highlight it specially	Pass (C)	Due to input under voltage protection.	
Hi-Pot/Insulation resistance (For Production line control only)	Insulation Resistance: Input-Output, Input-PE, Output-PE, 500Vdc/60s/25°C	Hi-Pot: Input-Output 3750Vac/Input-Ground 1528Vac Output-Ground 500Vac/Input-Dimming 3750Vac/Dim-Ground 500Vac; Insulation Resistance: 10MΩ(min)		
Over Temperature Protection	Yes. The driver will turn off the output current when the case temperature exceeds 95°C (±5°C), and will not return to normal even if over temperature condition is removed. By reconfiguring the drivers by software, the over temperature shutdown function can be released and normal output can be restored.			
Output circuit short protection			Yes	
Output circuit open protection			No	
Output circuit over voltage Protection			Yes	

Lifetime and Application Environment

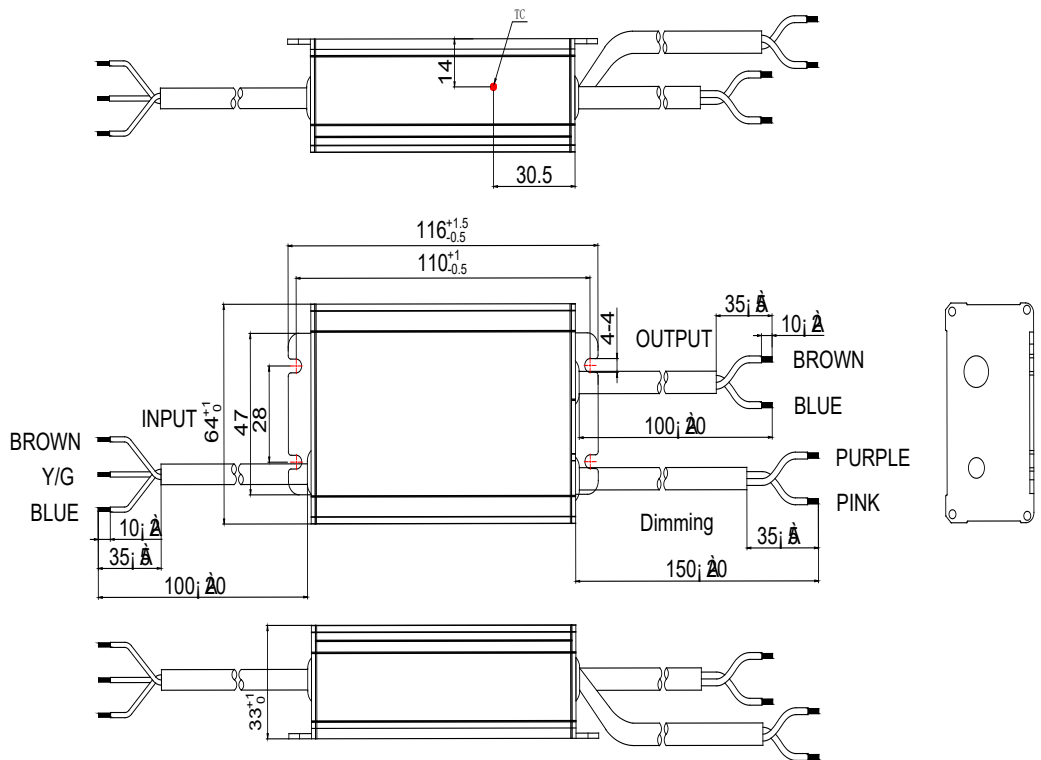
Requirement	Condition	Rated Value	Unit
Declared lifetime	Full load with max Tc	50000h	hrs
Ambient Temperature Range (Ta)		-40 ~ + 55	°C
Tc temperature of Product under Ta max	max	90	°C
Storage Temperature Range (Ta)		-40 ~ + 85	°C
Max. Tc temperature of driver in fault condition		<110	°C
Operating humidity		10 ~ 93%	%
Storage humidity	Product	10 ~ 93%	%
Switching Cycle	0.5min on /0.5min off cycle	25000	Times
Warranty year	24hrs / day	5	Years

Smart Features

Requirement	Condition	Rated Value	/
Compability with 3rd application		Product with Bluetooth. APP type: Smart +/- Google Speaker/ Amazon Speaker/ Apple Homekit Product with Zigbee APP type: Philip hue/ Amazon Speaker/ Google Speaker, etc Product with WiFi APP type: Smart + WiFi/ Google Speaker/ Amazon Speaker Combability with Gen1 and Gen2 WiFi remote controller Operation system: IOS/ Android	
Mini wireless control distance		Provisioning distance: Controller-to-Lamp distance: Mesh distance:	m

Note: After triggering OTP, there is a flashing light phenomenon on the input switch

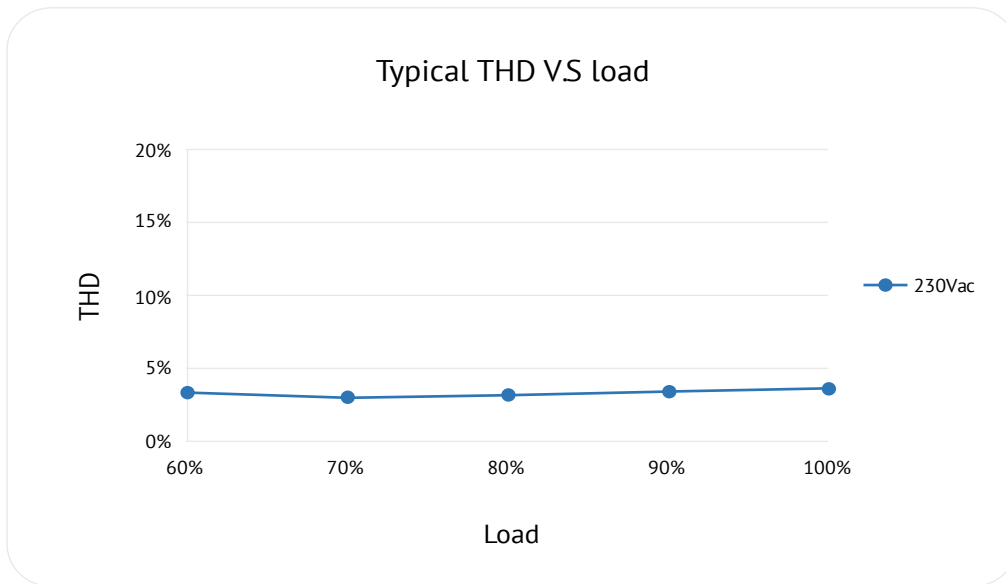
Dimensions & Weight



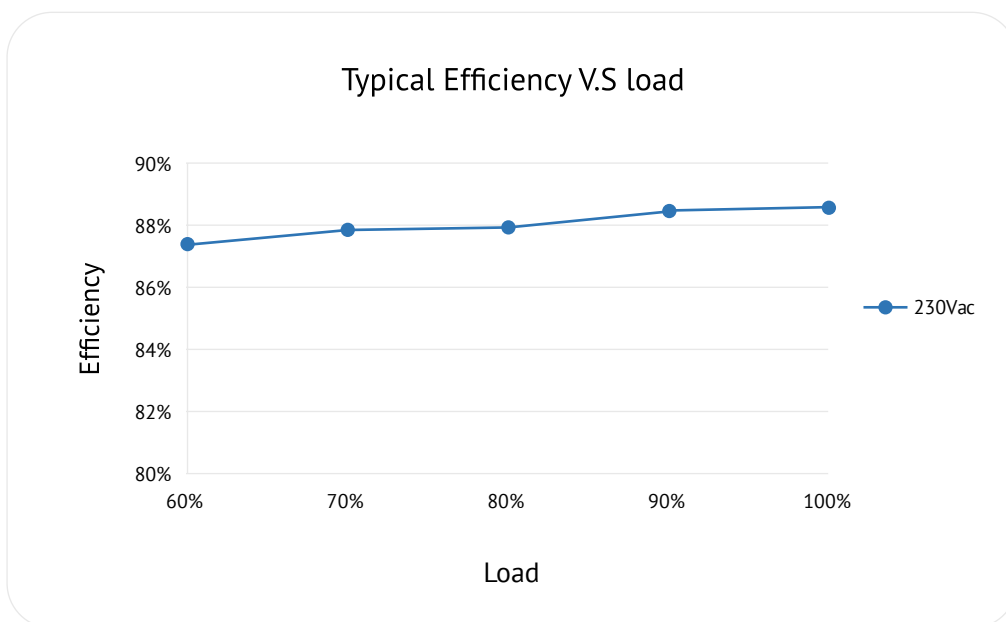
Length	116 mm	Weight	480 / ±50 / g
Width	64 mm	Diameter	/ mm
Height	33 mm	Other requirements	/
Cable Length & Size of LED Driver Output	CCC+VDE H05RN-F 2*1.0 mm2 L=100±20mm / ±20mm		
Cable Length & Size of LED Driver Input	CCC+VDE H05RN-F 3*1.0 mm2 L=100±20mm / ±20mm		

Curve

Typical THD V.S load

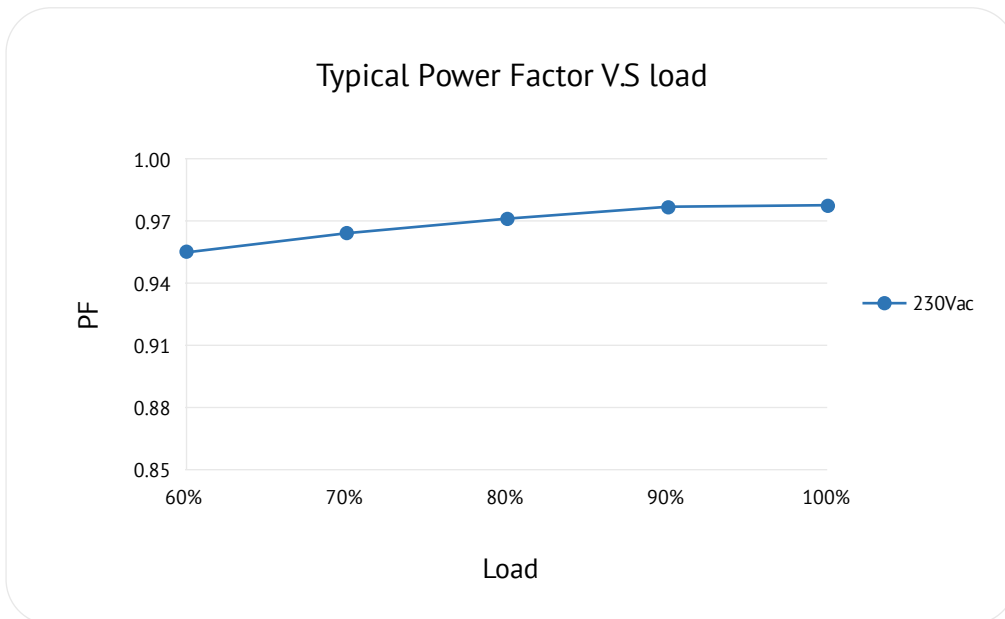


Typical Efficiency V.S load

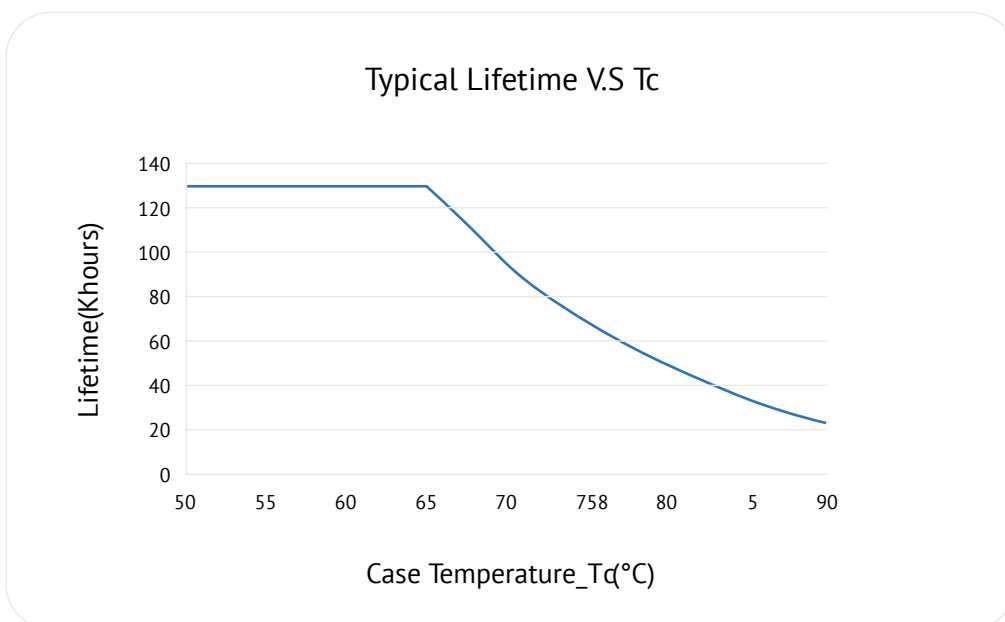


Curve

Typical Power factor V.S load



Typical Lifetime V.S Tc



Curve

Operating Window

