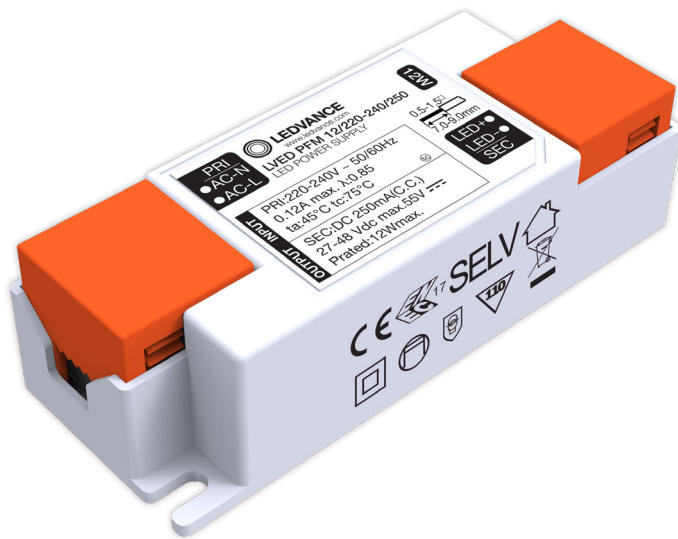


PRODUCT DATASHEET

LVED PFM 12/220-240/250

PERFORMANCE INDOOR DRIVER



AREAS OF APPLICATION

- LED Panel
- LED Spot Light
- LED Down Light

PRODUCT BENEFITS

- Class II, SELV, Independent
 - Input Voltage 220-240VAC
 - Protections: SCP/OLP/OVP
 - Power Factor: 0.85
 - Efficiency: $\geq 87\%$
 - 5 years warranty
-

TECHNICAL DATA

General

| | |
|--------------------------|----------------------------|
| Model Name | LVED PFM 12W/220-240/250 |
| Driver Type | Non-dim driver |
| Region | Turkey |
| Certification and Report | CB, CE, ENEC, ROHS, REACH, |
| Indoor / Outdoor | Indoor |
| IP Level | IP20 |
| Protection Class | Class II |
| Application Character | Independent |

Electrical Data

| Requirement | Condition | Rated Value | Tolerance | Unit |
|---------------------------------|---|----------------------------|-----------|------|
| Input Voltage | Steady state | 220-240VAC | | VAC |
| Input Voltage | | 176-280V | | VDC |
| Input Current | | 0.12A MAX. @Full Load,198V | | mA |
| Input Wattage | | 12W Max. | | W |
| No-load power | | ≤0.5W | | W |
| Stand-by power | | ≤0.5W | | W |
| Power Factor | | >0.85C@Full Load,240VAC | | |
| Driver Efficiency | | 83 | | % |
| Total Harmonic Distortion (THD) | Steady state testing at rated input voltage range | <20% @Full Load,230VAC | | % |
| Output Power | Steady state | 12W Max. | | W |
| Driver Output Voltage (V) | Steady state testing at rated voltage | 27-48VDC | | V |
| Driver Output Current (mA) | | 250mA | | mA |

| | | | |
|---|---|--|---|
| Driver Output Current / Voltage Line Regulation (For Constant Current Driver) | Steady state testing at rated output voltage range | ±5% @220-240VAC | % |
| Output Ripple Current Percentage (%) | $(I_{\max} - I_{\min}) / (I_{\max} + I_{\min}) * 100\%$ | ≤ ±5% @Full Load, 230VAC | % |
| Start Delat Time | | 1s | S |
| Inrush Current [A] At Test Voltage | Testing at mains supply | 10A Max. /300μs@230V, Full Load. | A |
| Inrush Charge Time Th50 [us] | | | S |
| Dimming Range | | | % |
| Dimming Compatibility | | | % |

Lifetime and Application Environment

| Requirement | Condition | Rated Value | Unit |
|--|---|---------------|-------|
| Ambient Temperature Range (Ta) | | -20 ~ +45 | °C |
| Max. Tc temperature of driver in fault condition | Test at Max. Ta | 110 | °C |
| Max. Tc temperature of driver | Test at Max. Ta, and measured on tc point indicated of the product label. | <75°C | °C |
| Storage Temperature Range | | -25°C...+80C | °C |
| Operating humidity Range | | 20%-90%RH | % |
| Rated Lifetime | Ta=45 °C, Tc=85 °C | >30.000h@45°C | h |
| Warranty year | Acc. to purchasing & sales agreement | 5 | year |
| MTTF | | TBD | Hrs |
| Switching Cycle | 25°C 0.5min on /0.5min off cycle | 15000 | times |

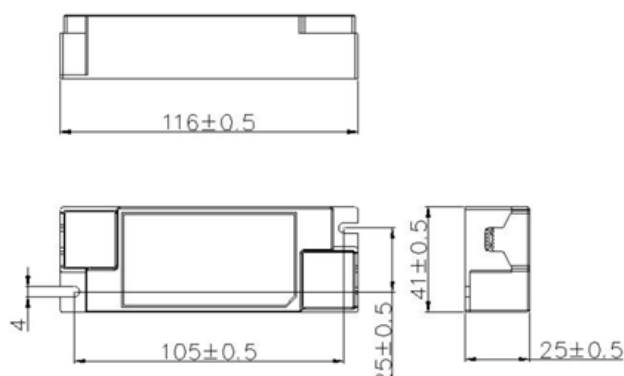
Key Material

| Requirement | Condition | Rated Value | / |
|-----------------------|-----------|--|---|
| Down housing Material | PP | Glass/ ABS/PC/PS/PP/PMMA/ Aluminium | / |
| Down housing color | White | RALxxxxx White/Black/Gray | / |
| Up housing Material | PP | Glass/ ABS/PC/PS/PP/PMMA/ Aluminium | / |
| Up housing color | White | White/Black/Gray/Transparent | / |
| End cap material | PP | Glass/ ABS/PC/PS/PP/PMMA/ Aluminium | / |
| End cap color | Orange | White/Black/Gray/Transparent | / |
| Housing fire rating | TBD | 94V0 | / |

Protection Function

| Requirement | Condition | Rated Value | / |
|--|---|----------------------|----|
| Output circuit short protection | Rated input voltage | Yes | / |
| Output circuit open protection | | No | |
| Output circuit over voltage protection | | Yes Protection Point | / |
| Overload protection | | Yes Protection Point | / |
| Over temperature protection | | No | / |
| Noise level (single lamp) | Test at 20cm with noise testing equipment | ≤20 | dB |

Dimensions & Weight



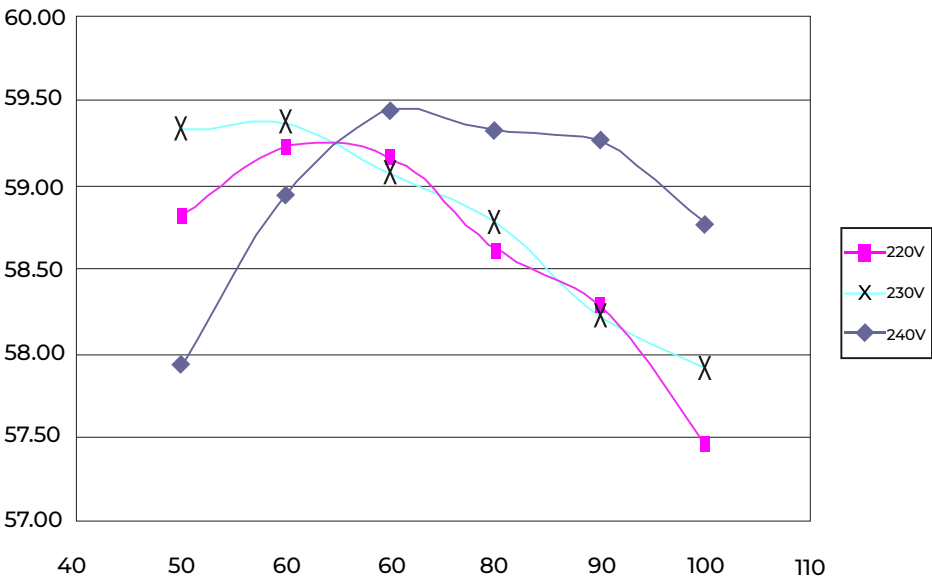
| | |
|--------------------|-------|
| Length | 92 mm |
| Width | 36 mm |
| Height | 25 mm |
| Cable length (AC) | - |
| Cable length (DC) | - |
| Cable length (DIM) | - |

Note: please mark LED driver and luminaire module Tc test point in picture as above

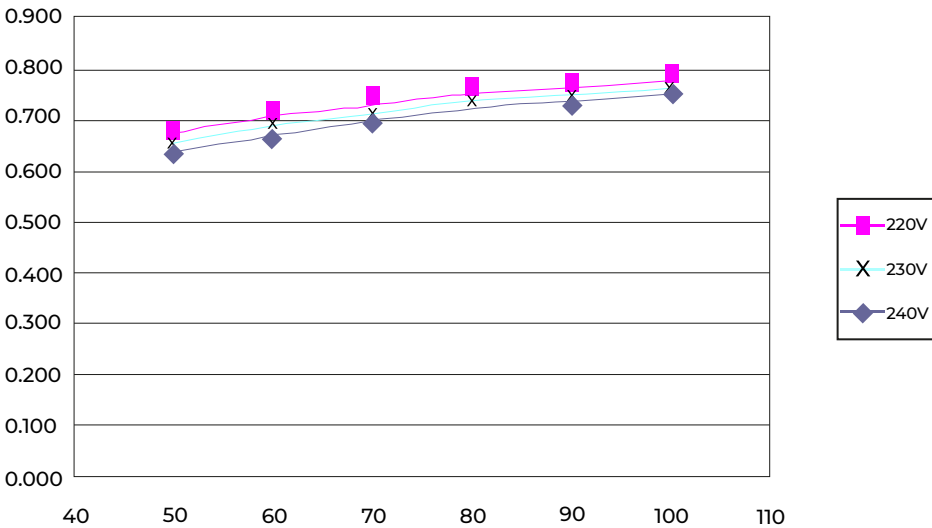
| Short Text | EAN-010 | EAN-040 |
|--|---------------|---------------|
| LVED PFM 12W/220-240/250 VS180 TR LEDV | 4058075734814 | 4058075734821 |

Curve

Typical THD v.s Load

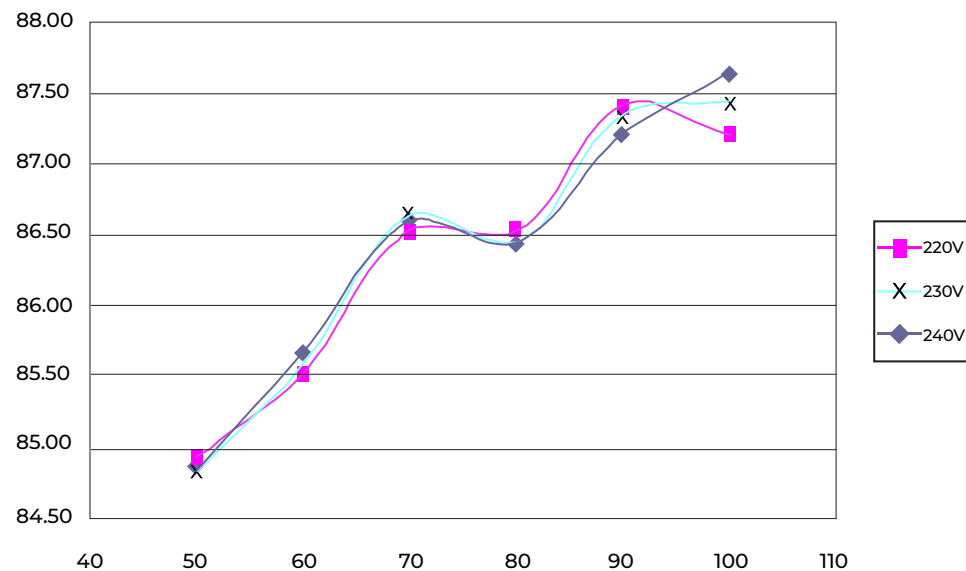


Typical Efficiency v.s Load



Curve

Typical Power Factor v.s Load



Typical Lifetime v.s Tc

