



The OFPS series of AC-DC Switch Mode Power Supplies (SMPS) from Essen are intended for low cost automation needs of industry. These universal input (90-270VAC, 50-60 Hz) power supplies have no cover and are meant for use inside a bigger enclosed system. These miniature SMPS feature extremely low no-load power consumption (<0.5W, Green power) which is a strict requirement for European, American and other developed markets. The OFPS series has complete protections such as short circuit, overload, over-temperature and over voltage. Industry standard output voltages 5V or 12V or 24V DC, are available for all power ratings thus offering a large selection range to the OEM customer.

Features:

- Universal input voltage range (90-270 VAC / 120V – 360VDC) for all models
- Overload ,short circuit, overvoltage and over temperature protected
- Robust construction using latest high reliability solid state electronic components
- Voltage and load regulation better than 1 %
- Cooling by free air convection
- CE marking

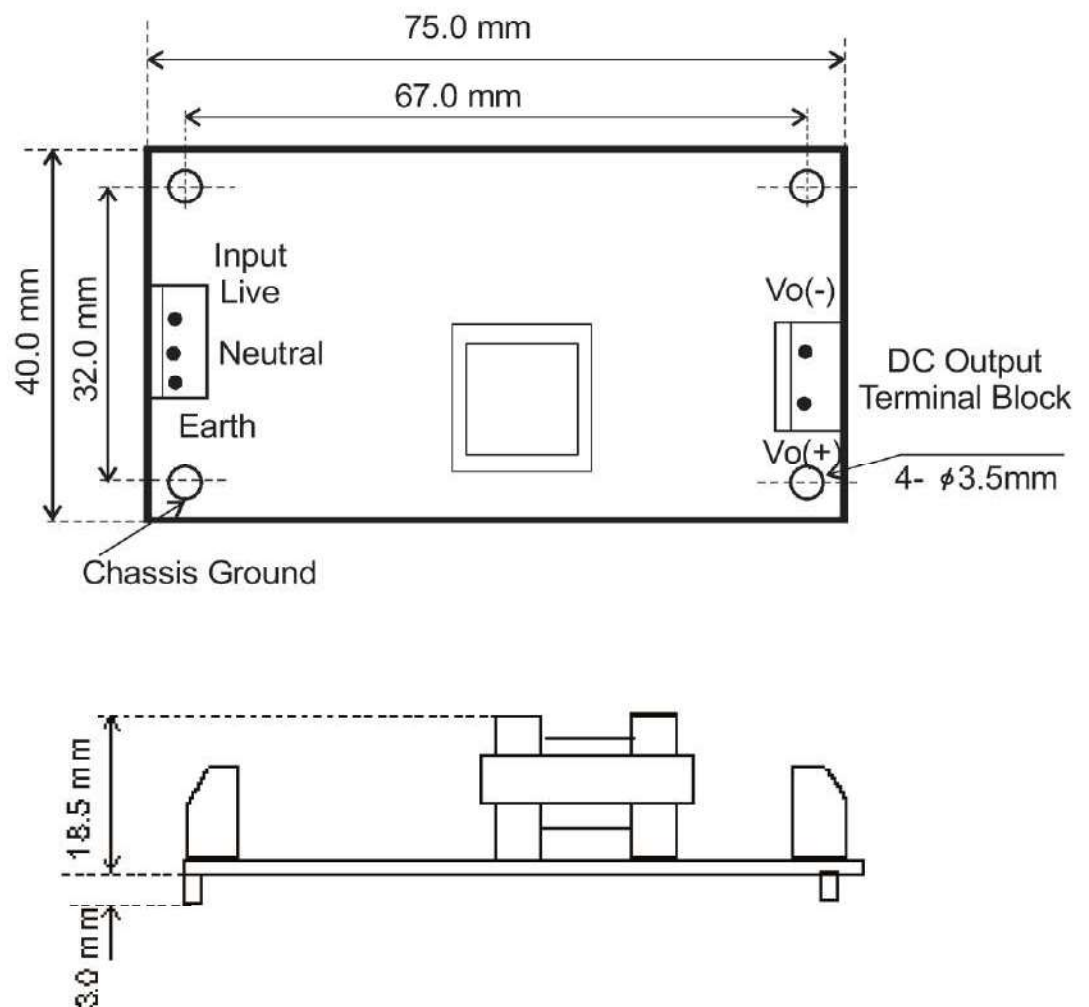
Specifications:

| | |
|------------------------|---|
| Input voltage | : 90-270VAC (50 – 60Hz) /(120 – 360VDC) in all models |
| Output Voltage | :5V or 12V or 24V DC, (NOT USER ADJUSTABLE) |
| Line regulation | : Better than 1% from low line to high line |
| Load regulation | : Within 1% of output from 0% to 100% rated load. |
| Protection | : Over-Load protection 110-150%. : Short circuit protected, automatic recovery when short circuit removed. |
| Leakage current | : Less than 0.75 mA at 230V AC input for all models |
| Inrush Current: | : 25A at 110V, 50A at 230V. (Max) |
| Isolation | : 1500VAC for 1 minute between Input and output 1500VAC for 1 minute between Input and Safety Earth 500VAC for 1 minute between output and Safety Earth |
| Insulation Resistance: | Tested for 100 Mohm at 500 VDC |
| Wire Connections | : 14-22 AWG using modular terminal block (5.08 mm pitch), |
| EMI /EMC | : EMI filter satisfying emissions to EN55022 Class A. |
| Hold Time | : At least 20 millisecond at rated load |
| Mounting | : 4 metallic standoffs (ordered separately) |
| Temperature | : Storage temperature: -20 to 85 °C. Working temperature –10 to 70°C (20-95% humidity (non-condensing)) |

Specifications OFPS-05-xx:

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|-----------------------------|--|
| Input Voltage Range | Universal input 90-270VAC (50 – 60Hz) /(120 – 360VDC) |
| Inrush Current | 25A/ 115VAC, 50A at 230VAC input |
| Overload protection | 110- 150% (hiccup mode, automatic recovery when overload removed) |
| Over temperature Protection | (140 – 150 °C), restart when temperature falls down to 100 °C (max.) |
| Dimensions | 75(L) x 40(W) x 18.5(H) mm |
| Mounting | 4 x metallic standoffs with M3 threads and matching nut |
| Cooling | Natural convection cooling |
| Connection | Modular terminal block (5.08mm Pitch) 14AWG (max) |
| Weight | 37 gram |

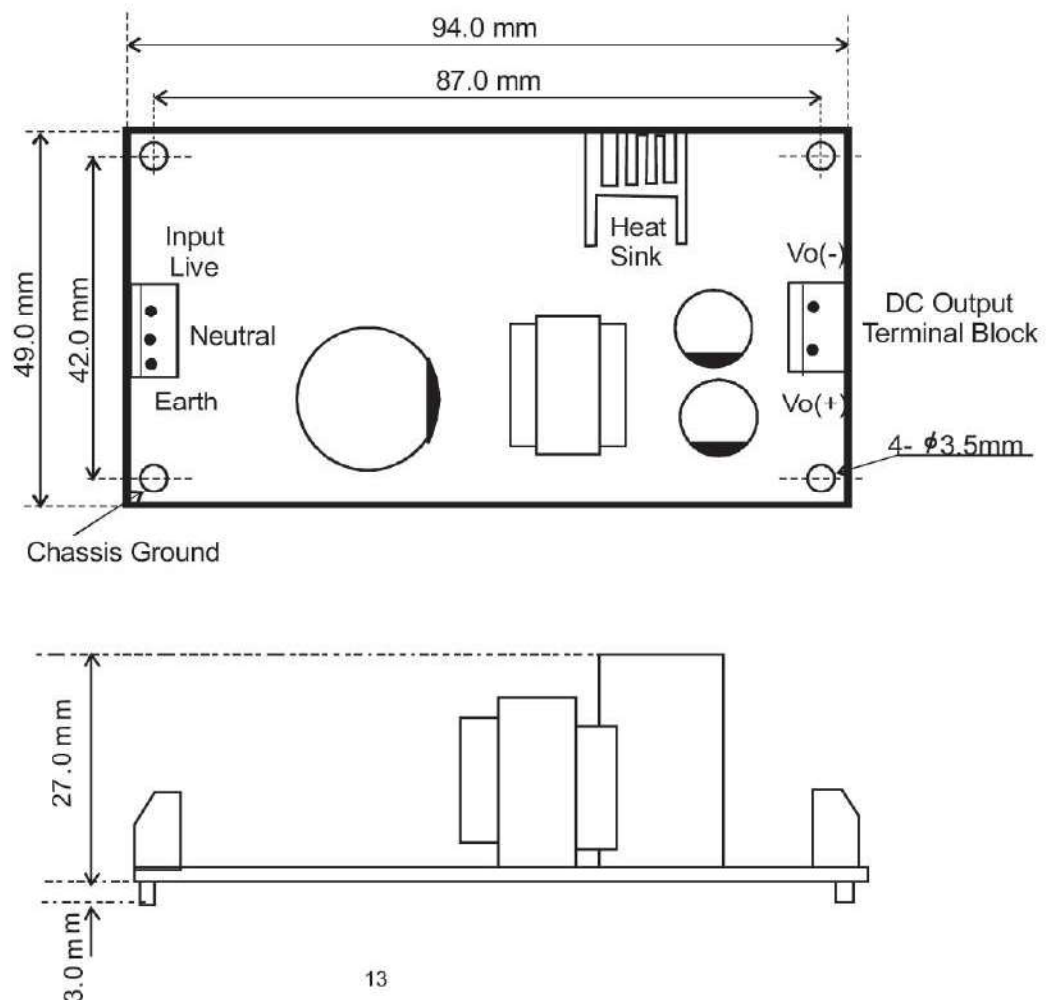
| Part No. | Output voltage | Output current range | Ripple | Efficiency |
|-------------------|-------------------|----------------------|--------|------------|
| OFPS-05-5 | 5VDC (+/- 0.1 V) | 0 – 1A | 100mV | 76% |
| OFPS-05-12 | 12 VDC (+/-0.3 V) | 0-0.42A | 100 mV | 77% |

Dimensions of OFPS – 05-xx:


Specifications OFPS-15-xx:

| | |
|-----------------------------|---|
| Input Voltage Range | Universal input 90-270VAC (50 – 60Hz) /(120 – 360VDC) |
| Inrush Current | 25A/ 115VAC, 50A at 230VAC input |
| Overload protection | 110- 150% (hiccup mode, automatic recovery when overload removed) |
| Over temperature Protection | (140 °C), restart when temperature falls down at least by 15 °C |
| Dimensions | 94(L) x 49(W) x 27(H) mm |
| Mounting | 4 x metallic standoffs with M3 threads and matching nut |
| Cooling | Natural convection cooling |
| Connection | Modular terminal block (5.08mm Pitch) 14AWG (max) |
| Weight | 90gram |

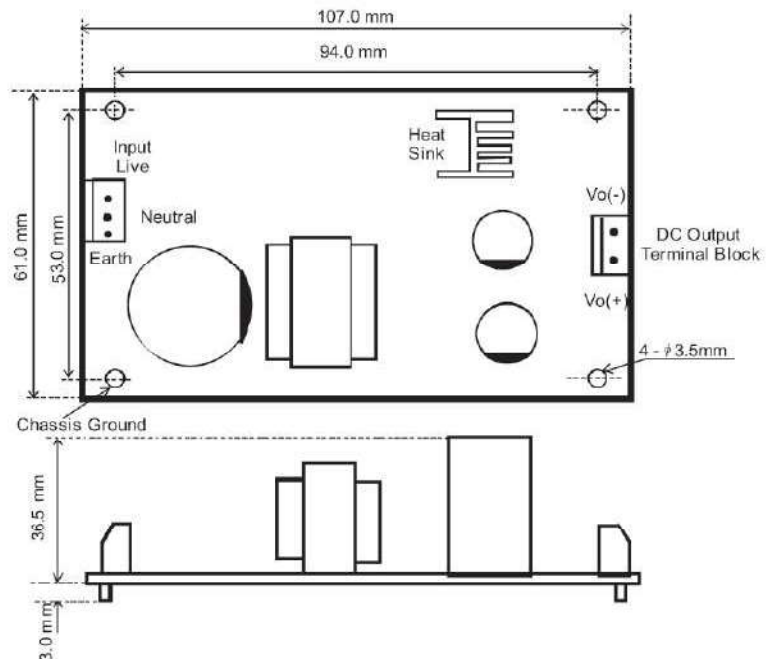
| Part No. | Output voltage | Output current range | Ripple | Efficiency |
|-------------------|----------------------|----------------------|--------|------------|
| OFPS-15-5 | 5VDC (+/- 0.1 V) | 0 – 3A | 100mV | 76% |
| OFPS-15-12 | 12 VDC (+/-0.3 V) | 0-1.25A | 100 mV | 77% |
| OFPS-15-24 | 24 VDC (+/- 0.6 VDC) | 0 – 0.7A | 150 mV | 79% |

Dimensions of OFPS – 15-xx:


Specifications OFPS-25-xx:

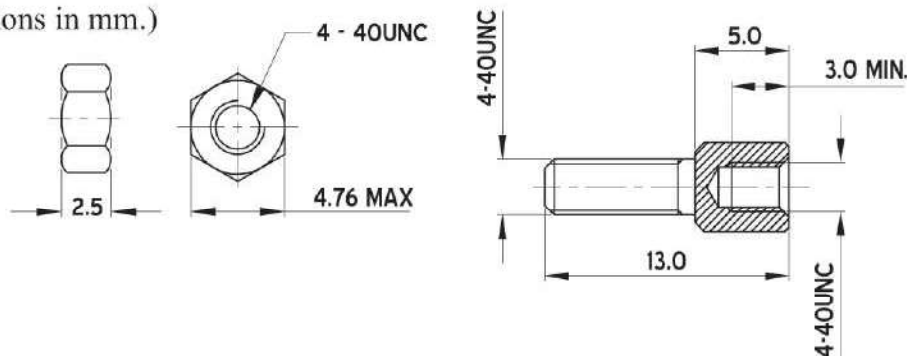
| | |
|-----------------------------|--|
| Input Voltage Range | Universal input 90-270VAC (50 – 60Hz) / (120 – 360VDC) |
| Inrush Current | 25A/ 115VAC, 50A at 230VAC input |
| Overload protection | 110- 150% (hiccup mode, automatic recovery when overload removed) |
| Over temperature Protection | (150 – 160 °C), restart when temperature falls down by least by 30°C |
| Dimensions | 107(L) x 61(W) x 36.5(H) mm |
| Mounting | 4 x metallic standoffs with M3 threads and matching nut |
| Cooling | Natural convection cooling |
| Connection | Modular terminal block (5.08mm Pitch) 14AWG (max) |
| Weight | 110 gram |

| Part No. | Output voltage | Output current range | Ripple | Efficiency |
|-------------------|----------------------|----------------------|--------|------------|
| OFPS-25-5 | 5 VDC (+/- 0.1 V) | 0 - 5 A | 100 mV | 74% |
| OFPS-25-12 | 12 VDC (+/- 0.3 V) | 0 – 2.1 A | 100 mV | 77% |
| OFPS-25-24 | 24 VDC ((+/- 0.6 V)) | 0 – 1.0A | 250 mV | 79% |

Dimensions of OFPS – 25-xx:


Metallic Standoffs: (all dimensions in mm.)
Order Code: S4

Material : M.S.
Finish : Nickel Plating





SWITCH MODE POWER SUPPLY

EPS - SERIES

SMPS With Din Rail Mounting Arrangement



Bottom Mounting



Side Mounting



Actual Adapter



Note : While placing order of SMPS with bottom mounting arrangement please add suffix 'BM'. For side mounting please add 'SM' to the ordering code of SMPS.

e.g : SMPS of 100 Watts with 24 V DC bottom mounting, ordering code will be EPS-100-24BM .Same SMPS with side mounting option will be EPS-100-24SM.

Part Number printed on SMPS in both cases will be EPS -100-24 only.



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