

# Industrial Power Supplies



## TSP Series, 78-600 Watt

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### Features

- DIN Rail or Wall Mounting (optional)
- Industrial safety approval package
- Power good signal & Remote ON/OFF
- Overload & over temperature protection
- Vibration & shock proof
- Detachable screw terminal block
- Operating temperature range -25°C to +70°C
- ATEX certification for hazardous locations (opt.)
- Rugged, compact metal casing for harsh industrial environments
- Add on Function Modules available - see separate data sheet



### Electrical Specification

|                             |  |
|-----------------------------|--|
| Input Voltage Range         | 85-132VAC / 187-264VAC autoselect  |
| EMI Emissions               | EN61204-3, EN 61000-6-3  |
| EMC Immunity                | EN61204-3, EN61000-6-2 (Industrial environment)  |
| Output Current Limitation   | at max. output current (constant current, automatic recovery)  |
| Over Temperature Protection | switch off at over temperature, automatic restart  |
| Output Characteristic       | selectable for parallel operation or battery charging application  |
| Operating Temperature Range | -25°C to +70°C (derate at 2%/°C above 40°C)  |
| Safety Approvals            | UL 60950-1 recognised, IEC/EN 60950-1, UL 508, CB report, EN 50178, EN60204, EN61558-2-4, SEMI F47, FM 3611, IEC/EN 60079-15 (class I, Div.2), ATEX 94/9EC (opt. EX) |
| Degree of protection        | safety class I (IEC 536)   |
| Case protection             | IP20 (IEC 529)   |
| Vibration & shock           | IEC 60068-2-6 / IEC 60068-2-27   |
| Connection                  | detachable screw terminals   |
| Casing                      | aluminium (chassis) / stainless steel (cover)  |
| Mounting                    | snap-on mounting on 35mm DIN-rail (optional wall mounting brackets)  |

### Output Voltage and Current Ratings

| MODEL       | OUTPUT POWER | OUTPUT VOLTAGE |            |     | OUTPUT CURRENT | RIPPLE & NOISE   | LINE REG. | LOAD REG. | EFF. (typ.) |
|-------------|--------------|----------------|------------|-----|----------------|------------------|-----------|-----------|-------------|
|             |              | nominal        | adj. range | OVP |                |                  |           |           |             |
| TSP070-112  | 78W          | 12VDC          | 12-14VDC   | 20V | 6.5A           | 200mV pk-pk max. | 0.5%      | 0.5%      | 87%         |
| TSP090-124  | 90W          | 24VDC          | 24-28VDC   | 35V | 3.75A          | 200mV pk-pk max. | 0.5%      | 0.5%      | 87%         |
| TSP090-124N | 90W          | 24VDC          | 24-28VDC   | 35V | 3.75A          | 200mV pk-pk max. | 0.5%      | 0.5%      | 87%         |
| TSP090-148  | 96W          | 48VDC          | 48-56VDC   | 60V | 2.0A           | 200mV pk-pk max. | 0.5%      | 0.5%      | 87%         |
| TSP140-112  | 156W         | 12VDC          | 12-14VDC   | 20V | 13.0A          | 200mV pk-pk max. | 0.5%      | 0.5%      | 87%         |
| TSP180-124  | 180W         | 24VDC          | 24-28VDC   | 35V | 7.5A           | 200mV pk-pk max. | 0.5%      | 0.5%      | 87%         |
| TSP180-148  | 192W         | 48VDC          | 48-56VDC   | 60V | 4.0A           | 200mV pk-pk max. | 0.5%      | 0.5%      | 87%         |
| TSP360-124  | 360W         | 24VDC          | 24-28VDC   | 35V | 15.0A          | 200mV pk-pk max. | 0.5%      | 0.5%      | 87%         |
| TSP360-148  | 360W         | 48VDC          | 48-56VDC   | 60V | 7.5A           | 200mV pk-pk max. | 0.5%      | 0.5%      | 87%         |
| TSP600-124  | 600W         | 24VDC          | 24-28VDC   | 35V | 25.0A          | 200mV pk-pk max. | 0.5%      | 0.5%      | 87%         |
| TSP600-136  | 600W         | 36VDC          | 36-42VDC   | 43V | 16.5A          | 200mV pk-pk max. | 0.5%      | 0.5%      | 87%         |
| TSP600-148  | 600W         | 48VDC          | 48-56VDC   | 60V | 12.5A          | 200mV pk-pk max. | 0.5%      | 0.5%      | 87%         |

add suffix -EX to model number for ATEX certified models, eg. TSP180-112-EX  
 model TSP090-124N meets EN60950 sect.2.5 and NEC class 2 (limited power source)

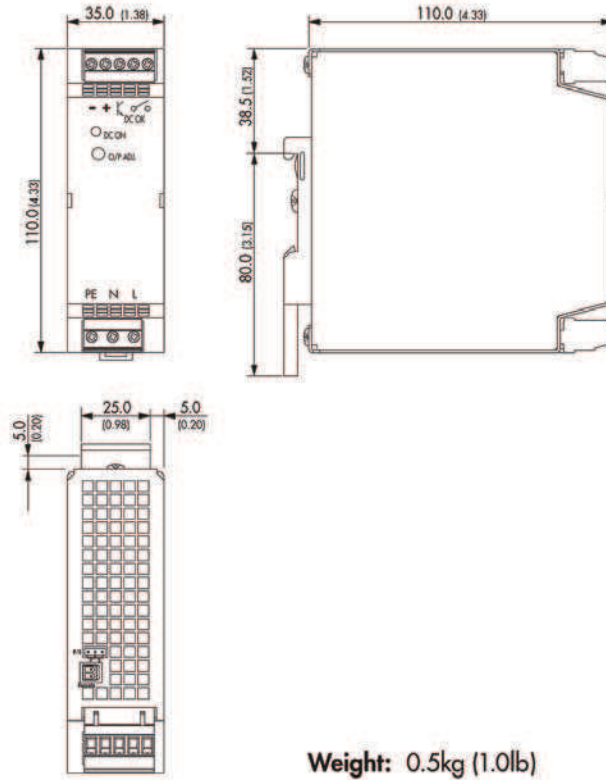
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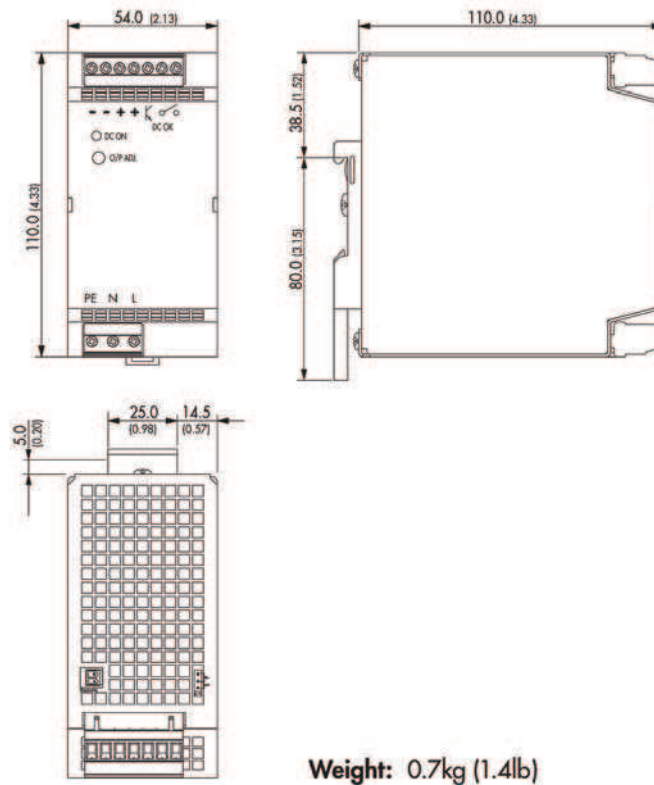
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## Mechanical Details

Models: TSP070/090



Model: TSP140/180



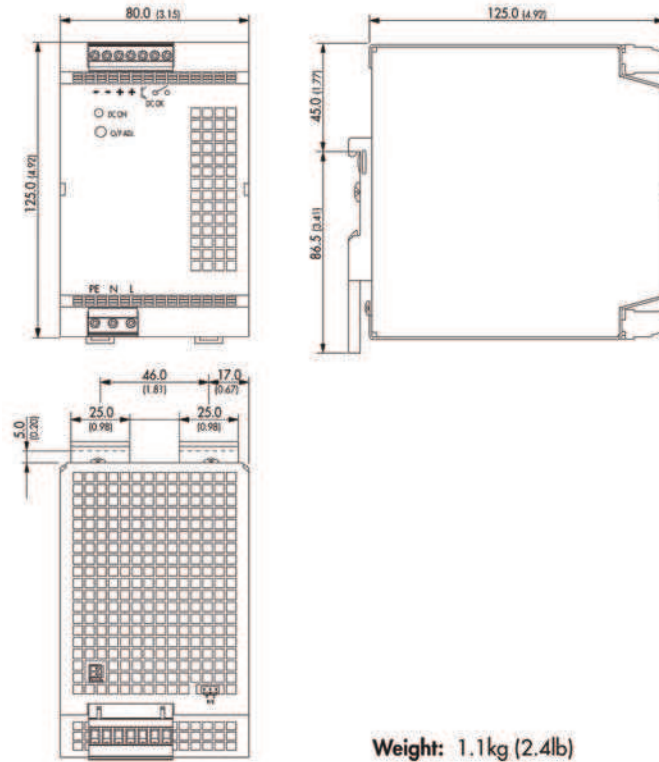
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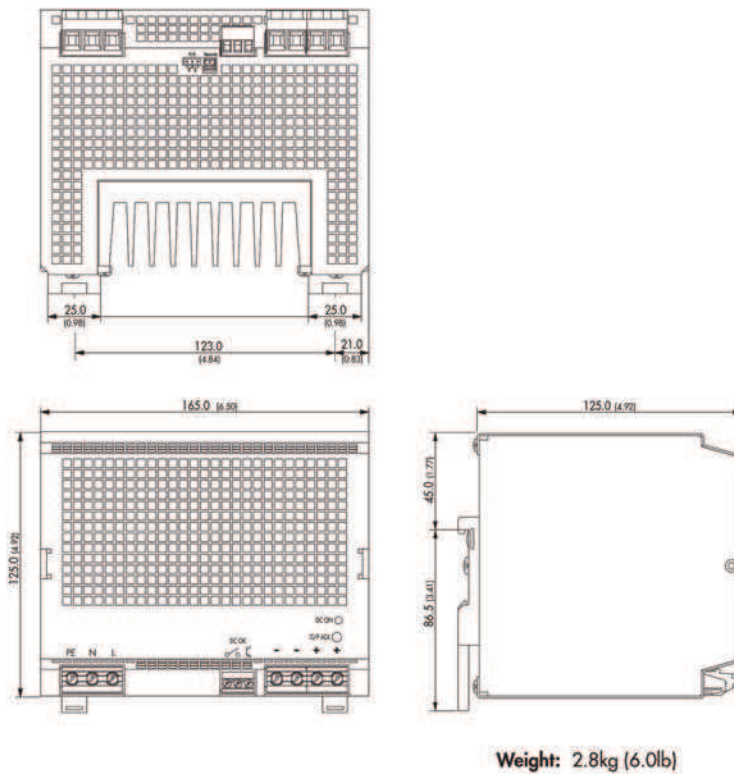
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## Mechanical Details (cont.)

Model: TSP360



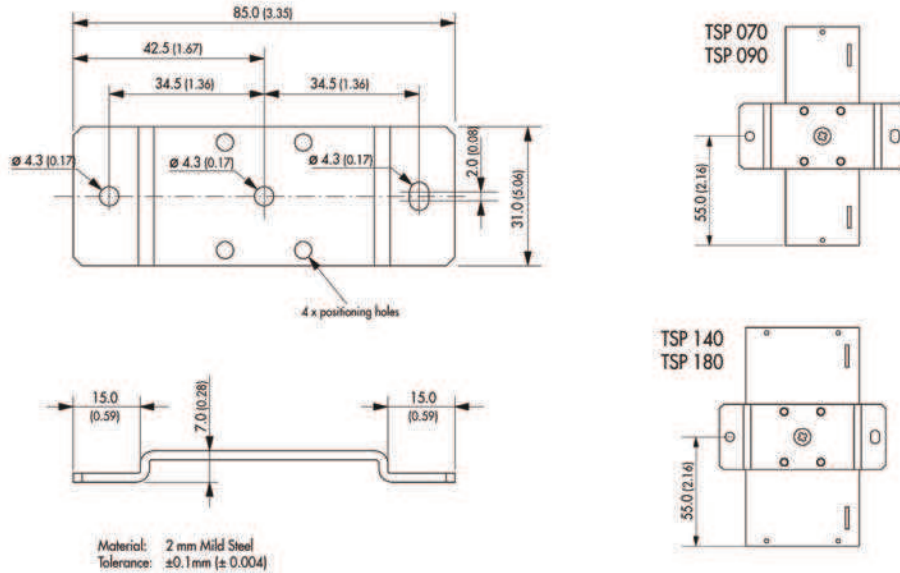
Model: TSP600



## Wall Mounting Brackets

| Wall Bracket Model No. | For use with                   | Contents of kit |
|------------------------|--------------------------------|-----------------|
| TSP-WMK01              | TSP070, TSP090, TSP140, TSP180 | 1 x TSP-WMK01   |
| TSP-WMK02              | TSP360, TSP600                 | 2 x TSP-WMK02   |

### TSP-WMK01



### TSP-WMK02

