**MPS Series 7.5W - 100W**

**AC-DC DIN Rail Power Supplies**
- Class 2
- UL, cUL, UR, cUR, CE
- Universal input 90—264VAC
- High efficiency
- Short circuit protection
- Internal input filter
- 3 Year warranty
- Modular design
- IP20

### Specification - 5VDC (7.5W - 60W)

<table>
<thead>
<tr>
<th>Model</th>
<th>MPS-1-007-5DC</th>
<th>MPS-1-015-5DC</th>
<th>MPS-1-022-5DC</th>
<th>MPS-1-035-5DC*</th>
<th>MPS-1-060-5DC*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Frame Size</td>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
</tr>
<tr>
<td>Input Voltage</td>
<td>90 — 264VAC</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Output Wattage</td>
<td>7.5W</td>
<td>15W</td>
<td>22W</td>
<td>35W</td>
<td>60W</td>
</tr>
<tr>
<td>Output Voltage</td>
<td>5VDC</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Output Current</td>
<td>1.5A</td>
<td>3A</td>
<td>4.5A</td>
<td>7A</td>
<td>12A</td>
</tr>
<tr>
<td>Efficiency (min/typ)</td>
<td>73/75%</td>
<td>80/82%</td>
<td>72/75%</td>
<td>78/80%</td>
<td>78/80%</td>
</tr>
</tbody>
</table>

**General Specification**
- Approval: cURus - Class 2
- Isolation Voltage: 3000VAC / 4242VDC
- Isolation Resistance: 100MO @ 500VDC
- Ambient Temperature: -40 to +71°C
- Derating: (61 to 71°C) 2.5%/°C, (56 to 71°C) 2.5%/°C
- Storage Temperature: -40 to +85°C
- Relative Humidity: 20 to 95% RH
- Cooling: Free air convection
- Dimensions: 91 x 18 x 56.5mm, 91 x 35 x 56.5mm, 91 x 53 x 56.5mm, 91 x 71 x 56.5mm, 91 x 90 x 57mm
- Weight: 65g, 130g, 190g, 250g, 380g
- Case Material: Plastic

**Input Specifications**
- Rated Input Voltage: 100 to 240VAC
- Input Voltage Range: 90 to 264VAC, 120 to 375VDC
- Line Frequency: 47 to 63Hz
- Inrush Current (115/230VAC): 16/32A, 20/40A, 25/50A, 30/60A, 30/60A

**Output Specifications**
- Output Voltage Accuracy: ±1%
- Minimum Load: 0%
- Load Regulation: ±1%
- Turn On Time: 1000ms after AC applied to input at full resistive load
- Voltage Fall Time: 150ms
- Voltage Rise Time: 150ms
- Hold Up Time (115/230VAC): 10/30ms, 20/80ms, 20/100ms, 16/60ms, 16/60ms
- Temperature Coefficient: ±0.03%/°C
- Ripple & Noise: 50mV
- Voltage Trim Range: N/A, 5 to 5.5VDC
- DC ON Indicator (Green LED): 3.5-4.5VDC
- DC LOW Indicator (Red LED): 3.5-4.5VDC

**Control & Protection**
- Rated Overload Protection: 125 to 185%
- Over Voltage Protection: 5.75-6.5VDC
- Output Short Circuit: Hiccup Mode, Fold Forward

* Not Class 2 listed
MPS Series 7.5W - 100W
AC-DC DIN Rail Power Supplies

- Class 2
- UL, cUL, UR, cUR, CE
- Universal input 90—264VAC
- High efficiency
- Short circuit protection
- Internal input filter
- 3 Year warranty
- Modular design
- IP20

---

**Specification - 12VDC (10W - 72W)**

<table>
<thead>
<tr>
<th>Model</th>
<th>MPS-1-010-12DC</th>
<th>MPS-1-024-12DC</th>
<th>MPS-1-033-12DC</th>
<th>MPS-1-054-12DC</th>
<th>MPS-1-072-12DC*</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Frame Size</strong></td>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
</tr>
<tr>
<td>Input Voltage</td>
<td>90 — 264VAC</td>
<td>90 — 264VAC</td>
<td>90 — 264VAC</td>
<td>90 — 264VAC</td>
<td>90 — 264VAC</td>
</tr>
<tr>
<td>Output Wattage</td>
<td>10W</td>
<td>24W</td>
<td>33W</td>
<td>54W</td>
<td>72W</td>
</tr>
<tr>
<td>Output Voltage</td>
<td>12VDC</td>
<td>12VDC</td>
<td>12VDC</td>
<td>12VDC</td>
<td>12VDC</td>
</tr>
<tr>
<td>Output Current</td>
<td>0.83A</td>
<td>2A</td>
<td>2.75A</td>
<td>4.5A</td>
<td>6A</td>
</tr>
<tr>
<td>Efficiency</td>
<td>77/79%</td>
<td>82/84%</td>
<td>80/83%</td>
<td>82/84%</td>
<td>83/86%</td>
</tr>
</tbody>
</table>

**General Specification**

- Approval: cURus - Class 2
- Isolation Voltage: 3000VAC / 4242VDC
- Isolation Resistance: 100MΩ @ 500VDC
- Ambient Temperature: -40 to +71°C
- Derating: (61 to 71°C ) 2.5%/°C
- Storage Temperature: -40 to +85°C
- Relative Humidity: 20 to 95% RH
- Cooling: Free air convection
- Dimensions: 91 x 18 x 56.5mm
- Weight: 65g
- Case Material: Plastic

**Input Specifications**

- Rated Input Voltage: 100 to 240VAC
- Input Voltage Range: 90 to 264VAC, 120 to 375VDC
- Line Frequency: 47 to 63Hz
- Inrush Current (115/230VAC): 16/32A

**Output Specifications**

- Output Voltage Accuracy: ±1%
- Minimum Load: 0%
- Line Regulation: ±1%
- Load Regulation: ±1%
- Turn On Time: 1000ms after AC applied to input at full resistive load
- Voltage Fall Time: 150ms
- Voltage Rise Time: 150ms
- Hold Up Time (115/230VAC): 10/30ms
- Temperature Coefficient: ±0.03%/°C
- Ripple & Noise: 50mV
- Voltage Trim Range: N/A
- DC ON Indicator (Green LED): 9-10.8VDC
- DC LOW Indicator (Red LED): 9-10.8VDC

**Control & Protection**

- Rated Overload Protection: 125 to 185%
- Over Voltage Protection: 15-16.5VDC
- Output Short Circuit: Hiccup Mode, Fold Forward

* Not Class 2 listed
## MPS Series 7.5W - 100W

AC-DC DIN Rail Power Supplies

- Class 2
- UL, cUL, UR, cUR, CE
- Universal input 90—264VAC
- High efficiency
- Short circuit protection
- Internal input filter
- 3 Year warranty
- Modular design
- IP20

### Specification - 24VDC (10W - 100W)

<table>
<thead>
<tr>
<th>Model</th>
<th>MPS-1-010-24DC</th>
<th>MPS-1-024-24DC</th>
<th>MPS-1-036-24DC</th>
<th>MPS-1-060-24DC</th>
<th>MPS-1-100-24DC*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Frame Size</td>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
</tr>
<tr>
<td>Input Voltage</td>
<td>90 — 264VAC</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Output Wattage</td>
<td>10W</td>
<td>24W</td>
<td>36W</td>
<td>60W</td>
<td>100W</td>
</tr>
<tr>
<td>Output Voltage</td>
<td>24VDC</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Output Current</td>
<td>0.42A</td>
<td>1A</td>
<td>1.5A</td>
<td>2.5A</td>
<td>4.2A</td>
</tr>
<tr>
<td>Efficiency (min/typ)</td>
<td>78/80%</td>
<td>83/85%</td>
<td>81/84%</td>
<td>84/86%</td>
<td>86/89%</td>
</tr>
</tbody>
</table>

### General Specification

- **Approval**: cURus - Class 2
- **Isolation Voltage**: 3000VAC / 4242VDC
- **Isolation Resistance**: 100MΩ @ 500VDC
- **Ambient Temperature**: -40 to +71°C
- **Derating**: (61 to 71°C ) 2.5%/°C (56 to 71°C ) 2.5%/°C
- **Storage Temperature**: -40 to +85°C
- **Relative Humidity**: 20 to 95% RH
- **Cooling**: Free air convection
- **Dimensions**: 91 x 16 x 56.5mm
- **Weight**: 65g
- **Case Material**: Plastic

### Input Specifications

- **Rated Input Voltage**: 100 to 240VAC
- **Input Voltage Range**: 90 to 264VAC, 120 to 375VDC
- **Line Frequency**: 47 to 63Hz
- **Inrush Current (115/230VAC)**: 16/32A, 20/40A
- **Output Voltage Accuracy**: ±1%
- **Minimum Load**: 0%
- **Line Regulation**: ±1%
- **Load Regulation**: ±1%
- **Turn On Time**: 100ms after AC applied to input at full resistive load
- **Voltage Fall Time**: 150ms
- **Voltage Rise Time**: 150ms
- **Hold Up Time (115/230VAC)**: 10/30ms, 20/80ms, 20/100ms, 16/60ms, 16/60ms
- **Temperature Coefficient**: ±0.03%/°C
- **Ripple & Noise**: 50mV
- **Voltage Trim Range**: N/A, 24 to 28VDC
- **DC ON Indicator (Green LED)**: 19.2-21.6VDC
- **DC LOW Indicator (Red LED)**: 19.2-21.6VDC

### Control & Protection

- **Rated Overload Protection**: 125 to 185%
- **Over Voltage Protection**: 30-33VDC
- **Output Short Circuit**: Hiccup Mode, Fold Forward

*Not Class 2 listed*
MPS Series 7.5W - 100W
AC-DC DIN Rail Power Supplies

Dimensions (mm)

Frame Size 1
- Side Profile (All Models)

Frame Size 2

Frame Size 3

Frame Size 4

Frame Size 5

Terminal Assignment

<table>
<thead>
<tr>
<th></th>
<th>Frame 1</th>
<th>Frame 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Output</td>
<td>-</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>1</td>
<td>1, 2</td>
</tr>
<tr>
<td></td>
<td>+</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>2</td>
<td>3, 4</td>
</tr>
<tr>
<td>Input</td>
<td>L</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>3</td>
<td>5</td>
</tr>
<tr>
<td></td>
<td>N</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>4</td>
<td>6</td>
</tr>
</tbody>
</table>
MPS Series 7.5W - 100W
AC-DC DIN Rail Power Supplies

MPS-1-010-5DC, MPS-1-010-12DC & MPS-1-010-24DC

MPS-1-015-5DC, MPS-1-024-12DC & MPS-1-024-24DC

MPS-1-022-5DC, MPS-1-033-12DC & MPS-1-036-24DC

MPS-1-035-5DC, MPS-1-054-12DC & MPS-1-060-24DC

MPS-1-060-5DC, MPS-1-072-12DC & MPS-1-100-24DC

Ref: DPS-30W-60W
Errors and omissions excepted. Subject to change without notice.
www.imopc.com