



# OI75WPSU

## 75 W DIN-Rail Power Supply

Input: 90-264 V AC / 120-370 B DC, Output:48 V DC, Operating Temperature: -30 to 70 °C

The ORIGO OI75WPSU – Industrial DIN-Rail Power Supply, 75W Output, 48 V DC.

The ORIGO OI75WPSU power supply is designed to provide power for network equipment in in a variety of harsh environments.

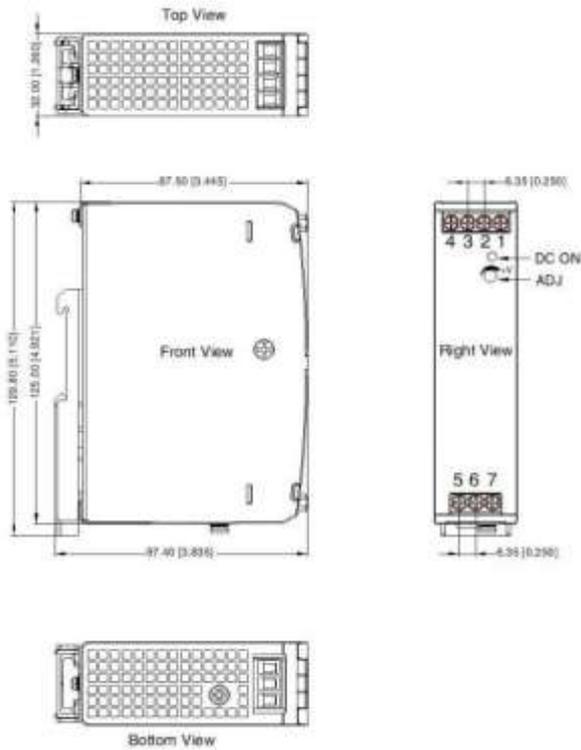
The ORIGO OI75WPSU operates a wide operating temperature range of -30 to 70 °C. It features built-in protection against short circuits, overcurrent, overvoltage, and thermal overload, and supports both AC and DC input voltage.

OI75WPSU is recommended for use with ORIGO industrial switches ORIGO: OI2210, OI2206P/60W, OI3106, OI3106P/60W, OI3112, OI3120.



### Key Features

- Output Power: 75 W
- Output Voltage: 48 V DC
- Universal 90–264V AC or 120–370V DC input voltage
- Operating Temperature: -30 to 70 °C
- DIN-Rail Mountable
- Recommended for ORIGO switches: OI2210, OI2206P/60W, OI3106, OI3106P/60W, OI3112, OI3120



Pin-Out	
Pin	Mark
1	-Vo
2	-Vo
3	+Vo
4	+Vo
5	AC(N)
6	AC(L)
7	⊕

Note:

Units: mm

Wire Gauge: 26–10 AWG

Terminal Torque: max. 0.79 N·m

Compatible DIN Rail: TS35 (DIN rail must be grounded)

## Specifications

### Hardware

Output Power	• 75 W
Output Voltage	• 48 V DC, 1.6 A
Output Voltage Adjustment Range	• 48 – 53 V
Input Voltage Range	• 90 – 264 V AC (47 – 63 Hz) • 120 – 370 V DC
Input Current	• 2 A (115 V AC) • 1 A (230 V AC)
Inrush Current	• 25 A (115 V AC) • 45 A (230 V AC)



Protection	<ul style="list-style-type: none"><li>• Short-circuit protection (recovery time up to 3 s)</li><li>• Overvoltage protection</li><li>• Overcurrent protection</li><li>• Overtemperature protection</li></ul>
Isolation Voltage (1 min / <10 mA)	<ul style="list-style-type: none"><li>• Input – Ground: 2000 V AC</li><li>• Input – Output: 4000 V AC</li><li>• Output – Ground: 500 V AC</li></ul>
Insulation Resistanc	<ul style="list-style-type: none"><li>• Input – Ground / Input – Output / Output - Ground: 50 MΩ at 500 V DC</li></ul>
Efficiency (230 V AC)	<ul style="list-style-type: none"><li>• 90 %</li></ul>
Hot-Swap	<ul style="list-style-type: none"><li>• Not supported</li></ul>
Ventilation System	<ul style="list-style-type: none"><li>• Fanless</li></ul>
Casing	<ul style="list-style-type: none"><li>• Metal</li></ul>
Mounting	<ul style="list-style-type: none"><li>• DIN-rail</li></ul>

### **Physical Parameters**

Dimensions (W × D × H)	<ul style="list-style-type: none"><li>• 87.5 x 32 x 125 mm</li></ul>
Weight	<ul style="list-style-type: none"><li>• 350 g</li></ul>

### **Operating Conditions**

MTBF	<ul style="list-style-type: none"><li>• 300 000 hours</li></ul>
Temperature	<ul style="list-style-type: none"><li>• Operating: -30 to 70 °C</li><li>• Storage: -40 to 85 °C</li></ul>
Humidity	<ul style="list-style-type: none"><li>• Operating: 20% to 90% (non-condensing)</li><li>• Storage: 10% to 95% (non-condensing)</li></ul>



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## Certifications & Standards

Safety Standard	<ul style="list-style-type: none"><li>• UL61010-1</li><li>• IEC/EN/UL/BS EN62368-1</li></ul>
Safety Class	<ul style="list-style-type: none"><li>• Class I</li></ul>
EMI	<ul style="list-style-type: none"><li>• Conducted Emission (CISPR32/EN55032 CLASS B)</li><li>• Radiated Emission (CISPR32/EN55032 CLASS B)</li><li>• Harmonic Current (IEC/EN6100-3-2 CLASS A)</li></ul>
EMS	<ul style="list-style-type: none"><li>• Electrostatic Discharge (ESD) Immunity (IEC/EN61000-4-2)<ul style="list-style-type: none"><li>- Contact: <math>\pm 6</math> kV, Air: <math>\pm 8</math> kV (in accordance with Criterion A)</li></ul></li><li>• Radiated Electromagnetic Immunity (IEC/EN61000-4-3)<ul style="list-style-type: none"><li>- 10 V/m (in accordance with Criterion A)</li></ul></li><li>• Electrical Fast Transient/Burst Immunity (IEC/EN61000-4-4)<ul style="list-style-type: none"><li>- <math>\pm 4</math> kV (in accordance with Criterion A)</li></ul></li><li>• Surge Immunity (IEC/EN61000-4-5)<ul style="list-style-type: none"><li>- Line-to-line: <math>\pm 2</math> kV, Line-to-ground: <math>\pm 4</math> kV (in accordance with Criterion A)</li></ul></li><li>• Conducted Disturbance Immunity (IEC/EN61000-4-6)<ul style="list-style-type: none"><li>- 10 V rms (in accordance with Criterion A)</li></ul></li><li>• Voltage Dips, Short Interruptions, and Voltage Variations Immunity (IEC/EN61000-4-11)<ul style="list-style-type: none"><li>- 0%, 70% (in accordance with Criterion B)</li></ul></li></ul>

## Package Contents

Package Contents	<ul style="list-style-type: none"><li>• Power Supply OI75WPSU</li><li>• Quick Installation Guide</li></ul>
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## Compatible Products

Switches	<ul style="list-style-type: none"><li>• OI2210</li><li>• OI2206P/60W</li><li>• I3106P/60W</li><li>• OI3106</li><li>• OI3112</li><li>• OI3120</li></ul>
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**Order Info**

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OI75WPSU	Industrial Power Supply, 75 W, DIN Rail, 48 V DC Output
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