



OI120WPSU

120 W DIN-Rail Power Supply

Input: 90-264V AC / 127-370B DC, Output: 48V DC, Operating Temperature: -20 to 60 °C

OI120WPSU – Industrial DIN-Rail Power Supply, 120 W Output, 48 V DC.

The ORIGO OI120WPSU power supply is designed to provide power for network equipment in a variety of harsh environments.

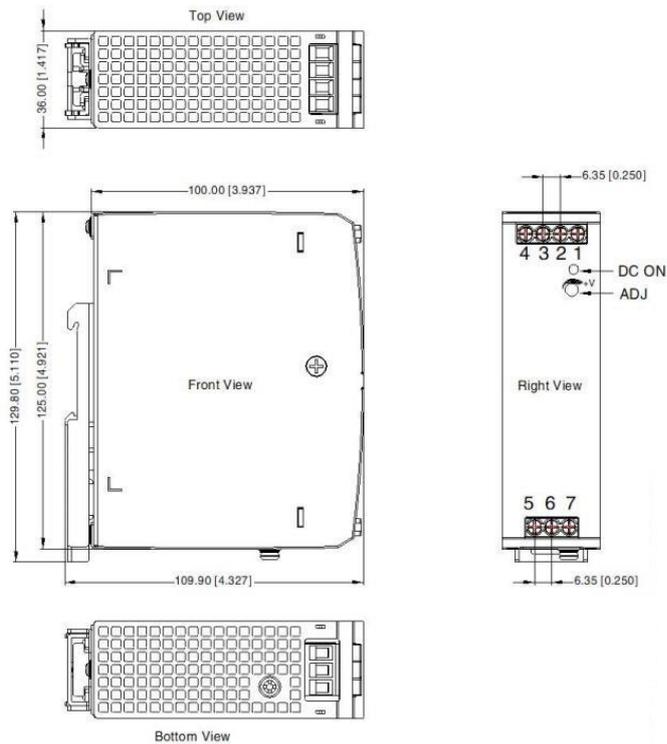
The OI120WPSU operates in a wide operating temperature range of -20 °C to 60 °C. It features built-in protection against short circuits, overcurrent, overvoltage, and thermal overload, and supports both AC and DC input voltage.

The OI120WPSU is recommended for use with ORIGO industrial switches: OI2210, OI2206P/60W, OI2206P/120W, OI3106, OI3106P/60W, OI3112, OI3120.

Key Features

- Output Power: 120 W
- Output Voltage: 48 V DC
- Universal 90–264V AC or 127–370V DC input voltage
- Operating Temperature: -20 to 60 °C
- DIN-Rail Mountable
- Recommended for ORIGO switches: OI2210, OI2206P/60W, OI2206P/120W, 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

Input Wire Gauge: 24–10 AWG (12–10 AWG for pin 7)

Output Wire Gauge: 18–10 AWG

Terminal Torque: max. 0.79 N·m

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

Specifications

Hardware

Output Power	• 120 W
Output Voltage	• 48 V DC, 2.5 A
Output Voltage Adjustment Range	• 48 – 55 V
Input Voltage Range	• 90 – 264 V AC (47–63 Hz) • 127 – 370 V DC
Input Current	• 3 A (115 V AC) • 1,6 A (230 V AC)
Inrush Current	• 30 A (115 V AC) • 55 A (230 V AC)

Protection	<ul style="list-style-type: none"> • Short-circuit protection (recovery time up to 3 s) • Overvoltage protection • Overcurrent protection • Overtemperature protection
Isolation Voltage (1 min / <10 mA)	<ul style="list-style-type: none"> • Input – Ground: 2000 V AC • Input – Output: 4000 V AC • Output – Ground: 500 V AC
Insulation Resistance	<ul style="list-style-type: none"> • Input – Ground / Input – Output / Output - Ground: 100 MΩ at 500 V DC
Efficiency (230 V AC)	<ul style="list-style-type: none"> • 89 %
Hot-Swap	<ul style="list-style-type: none"> • Not supported
Ventilation System	<ul style="list-style-type: none"> • Fanless
Casing	<ul style="list-style-type: none"> • Metal
Mounting	<ul style="list-style-type: none"> • DIN-rail

Physical Parameters

Dimensions (W × D × H)	<ul style="list-style-type: none"> • 100 x 36 x 125 mm
Weight	<ul style="list-style-type: none"> • 410 g

Operating Conditions

MTBF	<ul style="list-style-type: none"> • 300 000 hours
Temperature	<ul style="list-style-type: none"> • Operating: -20 to 60 °C • Storage: -40 to 85 °C
Humidity	<ul style="list-style-type: none"> • Operating: 20% to 90% (non-condensing) • Storage: 10% to 95% (non-condensing)



Certifications & Standards

Safety Standard	<ul style="list-style-type: none">• UL61010-1• UL508• UL61010-2-201• EN/BS EN62368-1
Safety Class	<ul style="list-style-type: none">• Class I
EMI	<ul style="list-style-type: none">• Conducted Emission (CISPR32/EN55032 CLASS A)• Radiated Emission (CISPR32/EN55032 CLASS A)• Harmonic Current: (IEC/EN6100-3-2 CLASS A)
EMS	<ul style="list-style-type: none">• Electrostatic Discharge (ESD) Immunity (IEC/EN 61000-4-2)<ul style="list-style-type: none">- Contact: ± 6 kV, Air: ± 8 kV (in accordance with Criterion B)• Radiated Electromagnetic Immunity (IEC/EN 61000-4-3)<ul style="list-style-type: none">- 10 V/m (in accordance with Criterion A)• Electrical Fast Transient/Burst Immunity (IEC/EN 61000-4-4)<ul style="list-style-type: none">- ± 4 kV (in accordance with Criterion B)• Surge Immunity (IEC/EN 61000-4-5)<ul style="list-style-type: none">- Line-to-line: ± 2 kV, Line-to-ground: ± 4 kV (in accordance with Criterion B)• Conducted Disturbance Immunity (IEC/EN 61000-4-6)<ul style="list-style-type: none">- 10 V rms (in accordance with Criterion A)• Voltage Dips, Short Interruptions, and Voltage Variations Immunity (IEC/EN 61000-4-11)<ul style="list-style-type: none">- 0%, 70% (in accordance with Criterion B)

Package Contents

Package Contents	<ul style="list-style-type: none">• Power Supply OI120WPSU• Quick Installation Guide
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Compatible Products

Switches	<ul style="list-style-type: none">• OI2210• OI2206P/120W• OI2206P/60W• OI3106P/60W• OI3106• OI3112• OI3120
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