



OTL-26-E-W-120-48



DATASHEET

Key Features

- OTL-26-E-W-120-48 is an economical 120W rail-mounted power supply compliant with German industrial standards. It is designed for installation on TS-35/7.5 or TS-35/15 rails, supporting full-range AC input from 90Vac to 264Vac. All specifications meet the EN61000-3-2 standard, which specifies harmonic current limits for EU applications.
- Designed with a metal casing for enhanced heat dissipation, this power supply achieves over 90% efficiency at 220V. Operating effectively in air-circulated environments with temperatures ranging from -40°C to 70°C, it features constant current mode overload protection. Ideal for inductive and capacitive loads, its comprehensive protection system and compliance with industrial control

► Product specification technical

| Product Model | OTL-26-E-W-60-48 | |
|-------------------|---------------------------------|---|
| output | Output groups | 1 |
| | rated output voltage | 48Vdc |
| | factory set output voltage | 48.00-48.2Vdc (Vin: 220Vac / LOAD: 0A) |
| | output rated current | 2.5A |
| | output current range | 0~2.5A |
| | output rating | 120W |
| | total peak output power | Total peak power: 160W (sustained for 10 seconds at 220Vac) |
| | peak anode current | 3.5A (Sustained for 10 seconds at 220Vac) |
| | ripple noise | Peak-to-peak voltage $\leq 100\text{mV}$. (Measurement method: Connect a $0.1\ \mu\text{F}$ and $47\ \mu\text{F}$ capacitor in parallel with the terminal, and measure at 20MHz bandwidth) |
| | output voltage regulation range | 47~56Vdc |
| | regulation accuracy | $\pm 3\%$ (@ 90-264Vac input, 100% load) |
| | linear adjustment rate | $\pm 0.5\%$ (@ 90-264Vac input, 100% load) |
| | load regulation | $\pm 1\%$ (@ 90-264Vac input, 0-100% load) |
| | output startup time | < 2S @ nominal input (100% load) |
| | output hold time | > 20ms @ 115Vac, > 50 ms @ 230Vac (100% load) |
| voltage overshoot | $\leq 5\%$ | |
| Import | input voltage range | 90~264Vac |
| | rated input voltage range | 100~240Vac |
| | frequency range | 47Hz~63Hz |
| | rated frequency | 50Hz/60Hz |
| | starting voltage | 90Vac |
| | productiveness | > 85.0% @ 115Vac, > 90.0% @ 230Vac |
| | input currenton | < 2.40A @ 115Vac, < 1.20A @ 230Vac |
| | initiation current | < 35A @ 115Vac & 230Vac |
| | power factor | >0.6 |

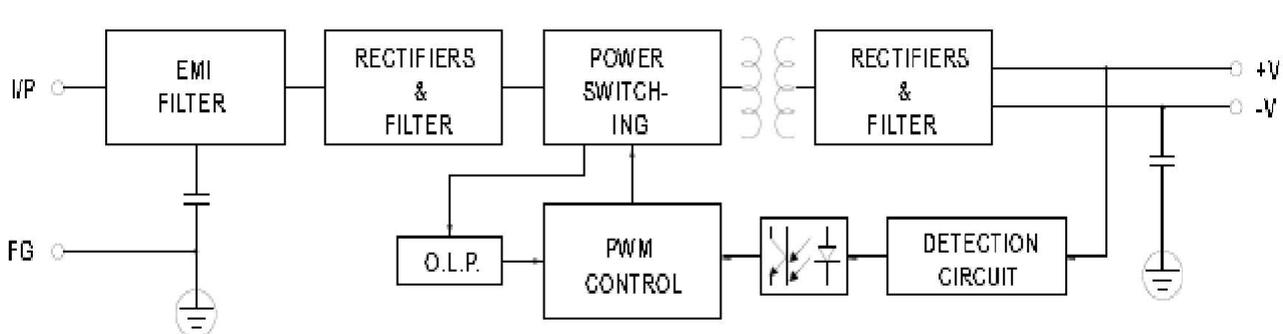
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|--------------------|----------------------------------|--|--|
| defensive function | output | over power protection | 130~160W oscillating test (Test method: Output current increases continuously until protection activates. Protection mode: Oscillating test. System automatically resumes after overpower condition is eliminated) |
| | | overvoltage crowbar | 61-67V protection mode: Output self-locking protection is disabled. Power must be reapplied to restore operation. |
| | | overcurrent protection | 2.8~3.7A oscillating test (Test method: The output current increases continuously until protection is triggered; Protection mode: Oscillating, which automatically resumes normal operation after overcurrent is eliminated.) |
| | | short-circuit protection | A copper wire with sufficient cross-sectional area and a length of 15cm ± 5cm can be directly short-circuited at the power output port. It can sustain a long-term short circuit, and the system will automatically restore after the short circuit is eliminated. |
| work environment | Working temperature and humidity | -40 ~ 70°C; 20% ~ 95%RH | |
| | Storage temperature and humidity | -40°C to 85°C; 10% to 95% relative humidity (RH), no condensation | |
| | temperature coefficient | ±0.03%/°C (0 ~ 50°C) | |
| | vibrate | Frequency range: 10–500 Hz, acceleration: 2 G, each sweep cycle: 10 min, with 6 sweep cycles performed along the X, Y, and Z axes. | |
| | lash | Acceleration 20G, duration 11ms, with 3 impacts along the X, Y, and Z axes | |
| | above sea level | 2000m | |

| | | | | |
|--|---|---|---|--|
| Safety and Electromagnetic Compatibility Standards | safety standards | EN IEC 62368-1 <input checked="" type="checkbox"/> Reference <input type="checkbox"/> Certification | | |
| | insulation strength | Input-Output: 3KVac/10mA; Input-House: 1.5KVac/10mA; Output-House: 0.5KVDC/10mA. Each test is conducted for 1 minute. | | |
| | ground test leakage current | Test conditions: 32A/2 minutes; Ground impedance: <0.1 ohms. | ground test | |
| | | | leakage current | |
| | insulation impedance | | | |
| | electromagnetic interference Harmonic current electromagnetic anti-jamming capability | conducted interference | electromagnetic interference | |
| | | radiatedradiated interference | | |
| | | EN61000-3-2 CLASS D | Harmonic current | |
| | | conduction disturbance | electromagnetic anti-jamming capability | |
| | | radiation disturbance | | |
| power frequency disturbance | | | | |
| electrostatic disturbance | | | | |
| other | fast pulse train | | | |
| guarantee period | 5 years | | | |

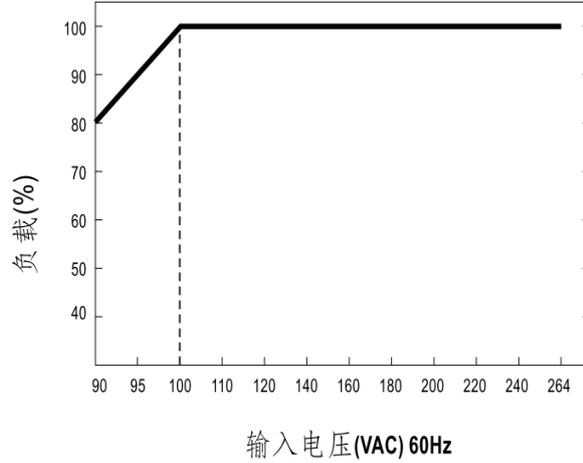
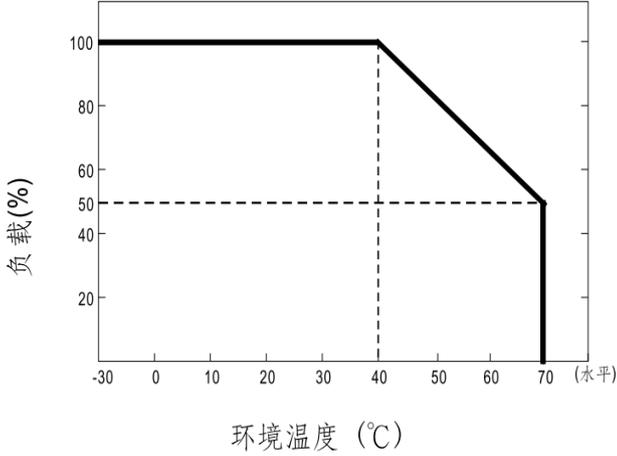
► **Remarks :**

- Unless otherwise specified, all specifications are measured under the following conditions: 230VAC input, rated load, and ambient temperature of 25°C.
- Ripple and noise measurement method: Use a 12-inch twisted pair cable with 0.1µF and 47µF capacitors connected in parallel at the terminals, and perform measurements at a bandwidth of 20MHz.
- . Accuracy: includes set error, linear adjustment rate and load adjustment rate.
- The power supply should be considered as an integral component of the system. Electromagnetic compatibility (EMC) verification must be performed in conjunction with the final equipment.

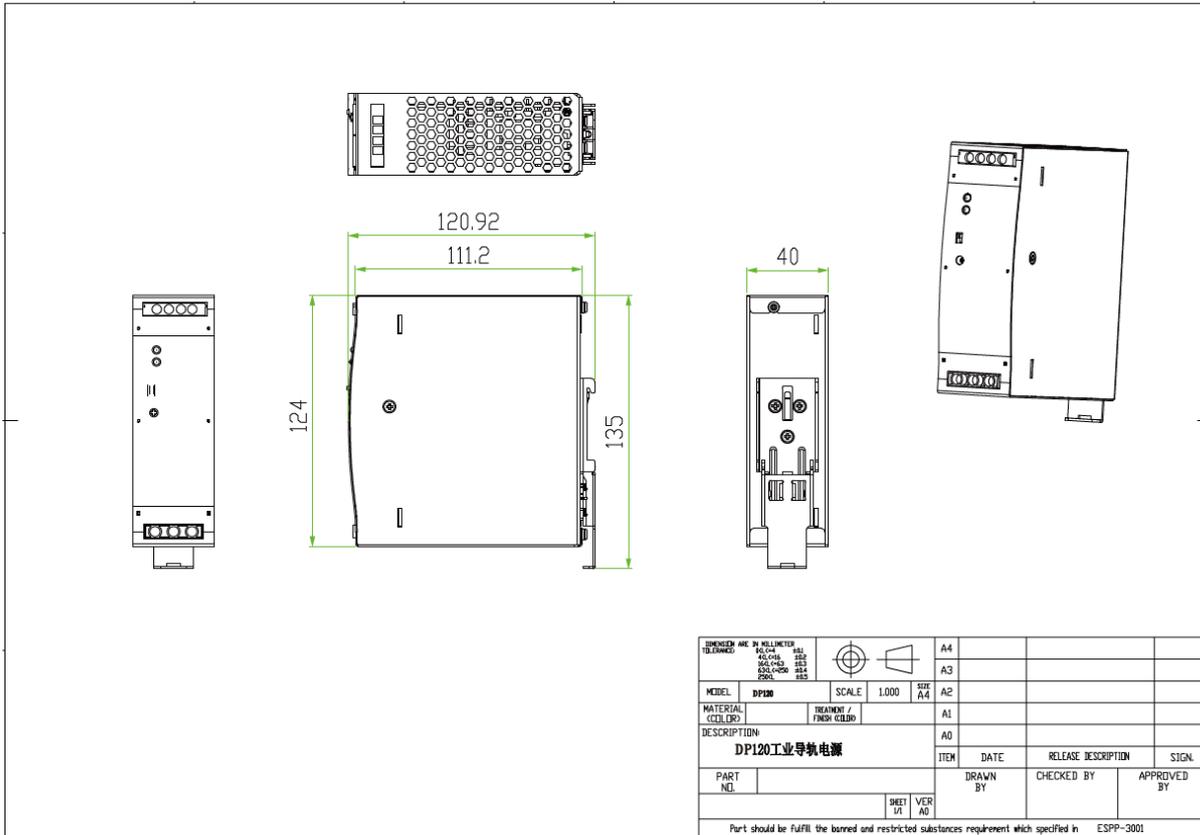
► **Internal structure block diagram :**



► Reduction curve, Static characteristic curve Reduction curve, Static characteristic curve,



► External dimensions



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