OTL-26-E-W-60-48

DATASHEET

Key Features

- OTL-26-E-W-60-48 is an economical 60W 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.

- Crafted from flame-retardant plastic, this power supply features a safe, robust, and durable design. Utilizing natural air convection, its base and top are equipped with multiple ventilation holes to ensure optimal airflow, delivering 88% high conversion efficiency while extending service life. Capable of withstanding extreme temperatures from-40°C to +70°C, it also provides comprehensive protection against short circuits, overcurrent, and overvoltage. Designed for inductive and capacitive loads, this industrial-grade solution meets all relevant certifications, making it a highly competitive power supply choice for demanding applications.

▶ Product specification technical

Product Model	OTL-26-E-W-60-48	
output	Output groups	1
	rated output voltage	48Vdc
	factory set output voltage	45.6-50.4Vdc （Vin：220Vac / LOAD：0A）
	output rated current	1.25A
	output current range	0～1.25A
	output rating	60W
	total peak output power	Total peak power: 80W (sustained for 10 seconds at 220Vac)
	peak anode current	1.66A (Sustained for 10 seconds at 220Vac)
	ripple noise	Peak-to-peak voltage ≤200mV. (Measurement method: Connect a 0.1 μ F and 47 μ F capacitor in parallel with the terminal, and measure at 20MHz bandwidth)
	output voltage regulation range	47～56Vdc
	regulation accuracy	±5% (45.6Vdc-50.4Vdc)
	linear adjustment rate	±1% (@ 90-264Vac input, 0-100% load)
	load regulation	±5% (@ 90-264Vac input, 0-100% load)
	output startup time	< 3.0S @ nominal input (100% load)
	output hold time	> 20ms @ 115Vac, > 100 ms @ 230Vac (100% load)
	voltage overshoot	≤10%
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, > 88.0% @ 230Vac
	input currenton	< 1.60A @ 115Vac, < 0.80A @ 230Vac
	initiation current	< 40A @ 115Vac, < 50A @ 230Vac
	power factor	PF>0.5 (at full load)

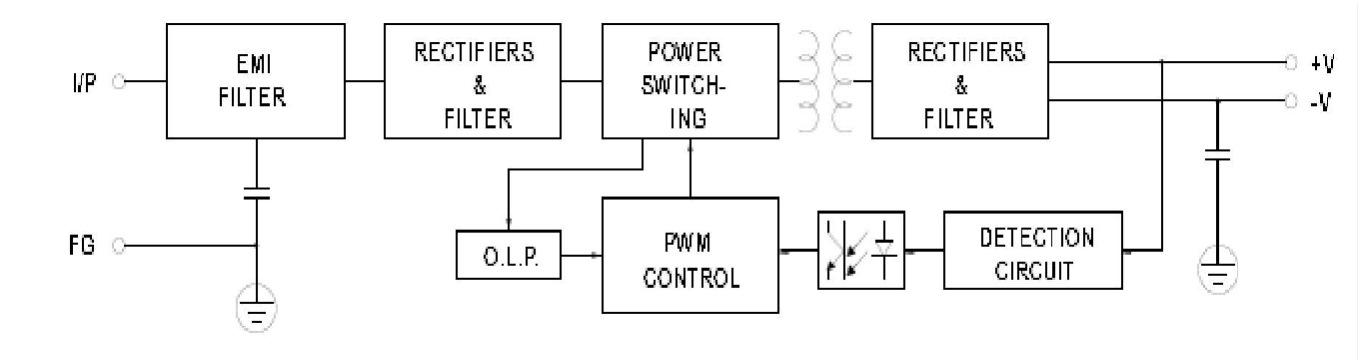
defencive function	output	over power protection	78～97W oscillation test (Test method: Continuously increase output current until protection activates. Protection mode: Oscillation. The system automatically resumes operation after overpower is eliminated.)
		overvoltage crowbar	57～70V oscillation (short-circuit pins 1-2 of U8; the oscillation resumes after the short circuit is removed) Note: External voltage injection is not allowed
		overcurrent protection	1.5～2.0A surge test (Test method: The output current is continuously increased until protection is triggered; Protection mode: Surge test, 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℃； 20%～95%RH	
	Storage temperature and humidity	-40°C to 85°C; 10% to 95% relative humidity (RH), no condensation	
	temperature coefficient	±0.03%/℃ (0～50℃)	
	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	leakage current	Input current to ground ≤3.5mA; input current to output ≤ 0.25mA (input 264Vac, frequency 63Hz)	
	insulation impedance	Input-output: 10M ohms;	
	electromagnetic interference	conducted interference	EN55032, FCC PART 15 CLASS B
		radiatedradiated interference	EN55032, FCC PART 15 CLASS B
	Harmonic current	EN61000-3-2 CLASS D	
	electromagnetic anti-jamming capability	conduction disturbance	EN61000-4-6 Level3
		radiation disturbance	EN61000-4-3 Leve3 Criterion B
		power frequency disturbance	EN61000-4-8 Level3
		electrostatic disturbance	EN61000-4-2 Level4 Criterion B
		fast pulse train	EN61000-4-4 Level4 Criterion B
		Lightning strike (surge)	EN61000-4-5 Level4 Criterion B
		interrupt, drop	EN61000-4-11
other	Dimensions (W*H*D)	93x41x102.5mm	
guarantee period	5 years		

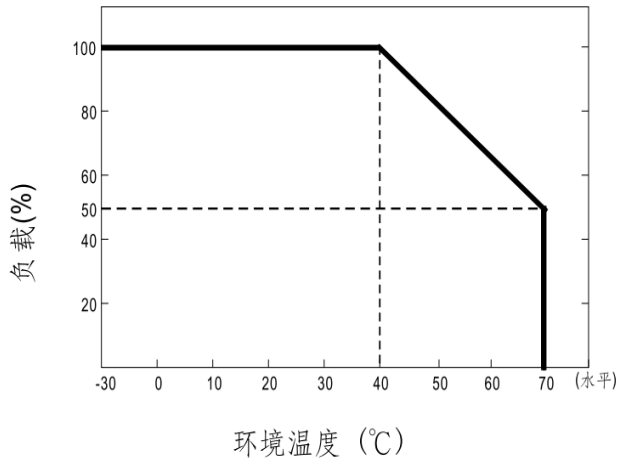
► **Remarks :**

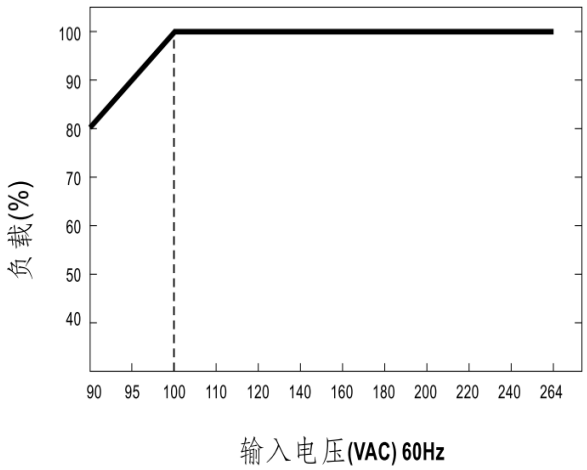
- Unless otherwise specified, all specifications are measured under the following conditions: 230VAC input, rated load, and ambient temperature of 25°C.
- Ripple and noise measurement method: Use a 12-inch twisted pair cable with 0.1μF and 47μF capacitors connected in parallel at the terminals, and perform measurements at a bandwidth of 20MHz.
- Accuracy: includes set error, linear adjustment rate and load adjustment rate.
- 4 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