

New 48W Series Desktop Adapter NT48



Product features

- Worldwide standard voltage: 100-240VAC, 50/60Hz
- Energy Efficiency Level DoE Level VI
- Overvoltage, overcurrent, and short circuit protection
- Fully enclosed plastic housing
- IEC320-C8 Input interface
- Wall-mounted, desktop.
- Meets global certification requirements

The new 48W series is a versatile power adapter featuring wall-mount, floor-standing, head-swappable, and desktop configurations. Designed to meet global standards including GB 4943.1, IEC 62368-1, UL 62368-1, EN 61558-1, EN 60335-1, EN 62368-1, GB 17625.1, and FCC Part 15 Subpart B, this series delivers stable output voltages from 5V to 48V to power diverse consumer electronics, telecom equipment, office systems, and household appliances.

Electrical specifications

model		NT48-12	NT48-12	NT48-19	NT48-24	NT48-24	NT48-8
output	DC Voltage	12V	12V	19V	24V	24V	8V
	Rated current	4A	3A	1.5A	2A	1.5A	3A
	Current range	0.1A-4.0A	0.1A-3A	0.1A-1.5A	0.1A-2.0A	0.1A-1.5A	0.1A-3.0A
	Rated power	48W	36W	28.5W	48W	36W	24W
	Voltage accuracy	±5%	±5%	±5%	±5%	±5%	±5%
	Line Regulation	±3%	±3%	±3%	±3%	±3%	±3%
	Load Regulation	±5%	±5%	±5%	±5%	±5%	±5%
	Ripple & Noise(max)	120mVp-p max	120mVp-p max	190mVp-p max	240mVp-p max	240mVp-p max	120mVp-p max
	turn-on delay	3s@90VAC fully loaded					
	HOLD	10ms@115VAC fully loaded, 20ms@230VAC fully loaded					
	Output	Constant Voltage/Constant Voltage & Constant Current					
	rise time	30ms max					
	overshoot	±10%					
	Dynamic response	Output voltage at 115Vac and 230Vac conditions, load changes 25%,50%,75% and 100%, slope: 0.5A/us, frequency: 50Hz-10KHz					
input	Output Voltage	90 - 264VAC					
	input frequency	47 - 63Hz					
	Efficiency	88.00% Min					
	Input voltage	1.0A Max@100VAC fully loaded					
	Input voltage	Cold start: Maximum 50A under 264Vac input					
	No load power consumption	≤0.3W, At the input 115Vac/230Vac,					
	Leakage current	0.25mA Max@264VAC					
protect	Overvoltage protection	Rated output voltage 110%-150%					
	Overcurrent protection	Rated output current 110%-200%, From recovery					
	Short circuit protection	Hiccups, sustained short circuit, self-recovery					
	Safety standards	UL/ETL,CCC,CE ,FCC					
	Color	Black\white					
Conventional Models		12V4A,12V3A,19V1.5A,24V2,A,24V1.5A,8V3A					

notes	* Ripple and noise measurement method: During testing, the oscilloscope should be set to 20MHz bandwidth limit, with a 0.1μF ceramic capacitor and a 10μF electrolytic capacitor connected in parallel at the output (input voltage 100-240Vac).
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General characteristics

project	working conditions	Min.	Typ.	Max.	单位/unit
insulation voltage	Input-output test duration: 60s, leakage current <10mA	3000	--	3000	VAC
insulation resistance	Input-output, insulated voltage 500VDC	100	--	--	M Ω
operation temperature	0℃ ~40℃, 20%~80% RH Non-Condensing	0		40	℃
storage temperature		-40		85	
Working humidity		--	--	85	%RH
storage humidity	5%-95% RH Non-Condensing	5	--	95	
altitude			--	5000	m
lifetime	25℃	3			years
MTBF	MIL-HDBK-217F (25℃)	50000	--	--	hours

Physical property

Housing material	PC, 120℃ 94V-0
Color	Black\white
Shell size	Wall-mounted horizontal: L76*W46.2*H27mm (not include input Plug) Wall-mounted vertical: L68.8*W30*H41.5mm (not include input Plug) Wall-mounted horizontal head-replaceable: L76*W55.1*H37mm (not include input Plug) Desktop: L94*W47*H29mm (not include input Plug)
weight	250g(Typ.)
Cooling method	Natural air cooling

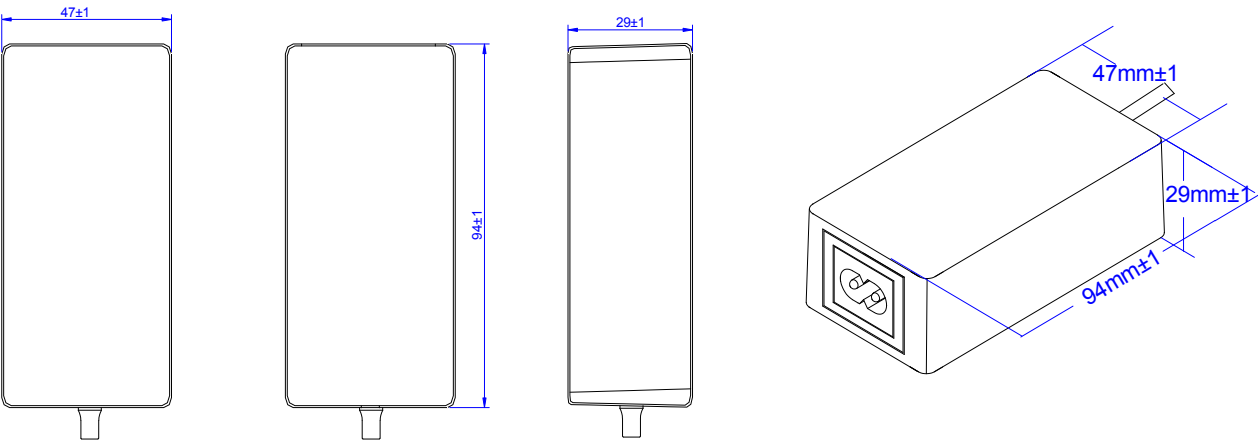
Safety standard;EMI Standards

classification	standard	condition	remarks
Safety	UL62368-1;GB4943.1;EN IEC 62368-1;EN IEC 61558-1;EN 61347-1,	accord with	
EMI	EN 55032; EN55035,EN 55015;FCC PART 15B;GB17625.1-2022, GB/T 9254.1-2021;	accord with	

EMS Standards

EN 61000-3-2	Harmonic current emissions
EN 61000-3-3	Voltage fluctuations & flicker
EN 61000-4-2	Electrostatic Discharge(ESD): 8kV air discharge, 4kV contact discharge
EN 61000-4-3	Radio-Frequency Electromagnetic Field Susceptibility Test-RS
EN 61000-4-4	Electrical Fast Transient/Burst-EFT
EN 61000-4-5	Surge Immunity Test: AC Power Line: line to line 1kV
EN 61000-4-6	Conducted Radio Frequency Disturbances Test-CS
EN 61000-4-8	Power Frequency Magnetic Field Test
EN 61000-4-11	Voltage Dips

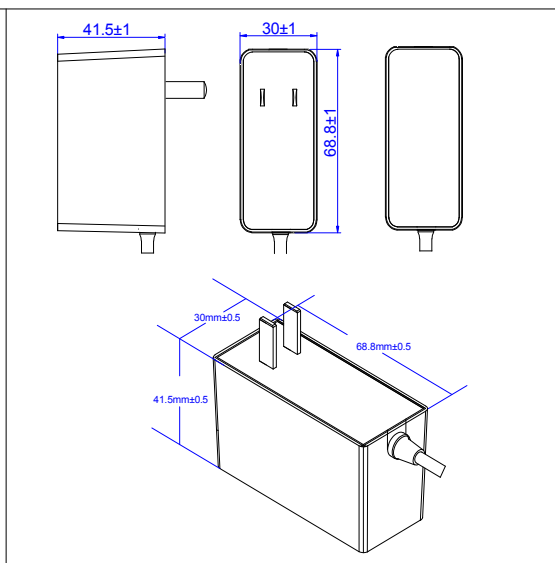
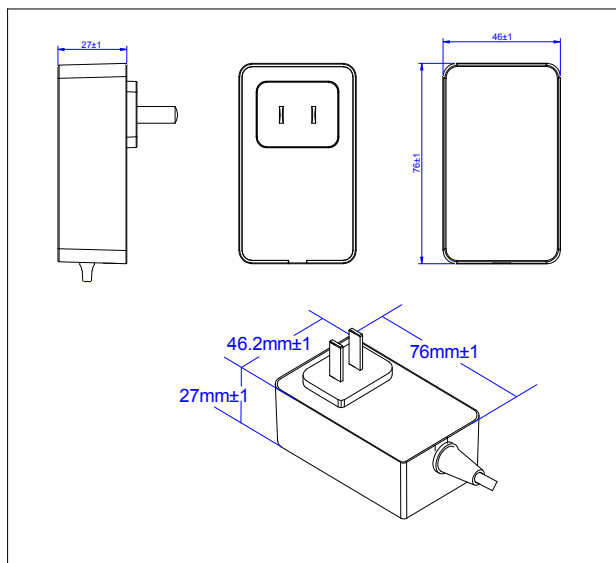
Desktop eight character tail
IEC320-C8



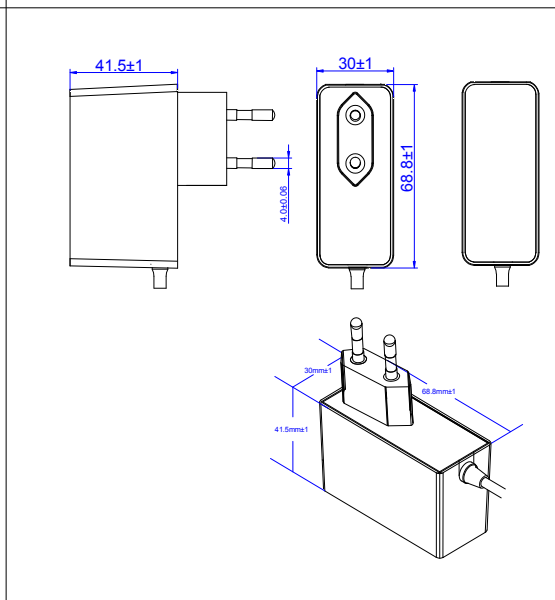
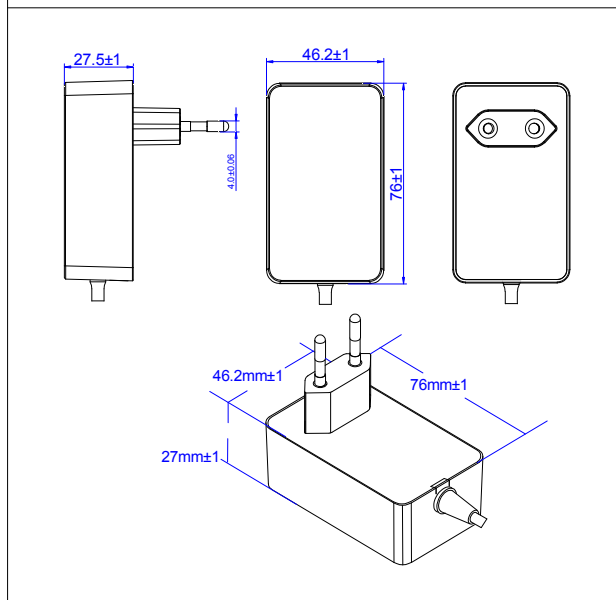
Wall-mounted, horizontal design

Wall-mounted upright design

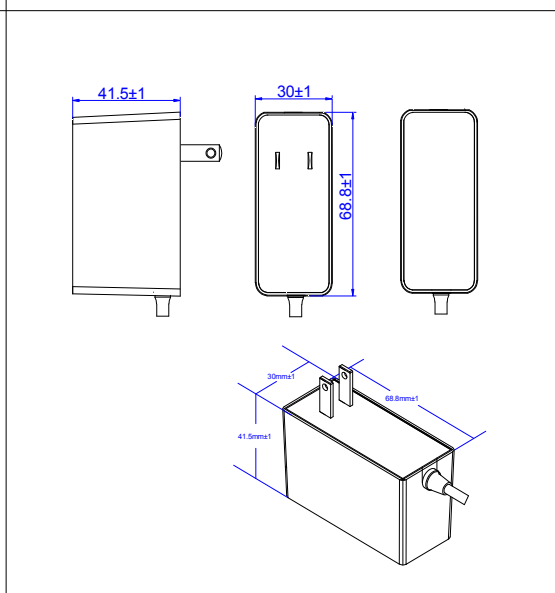
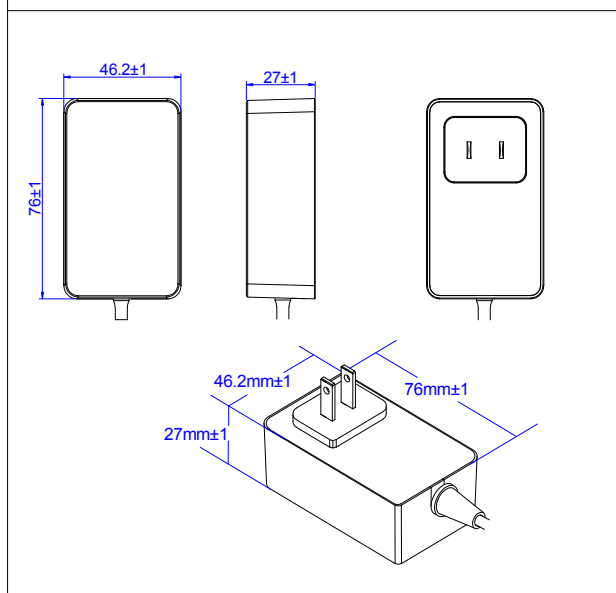
China pin



European code pin

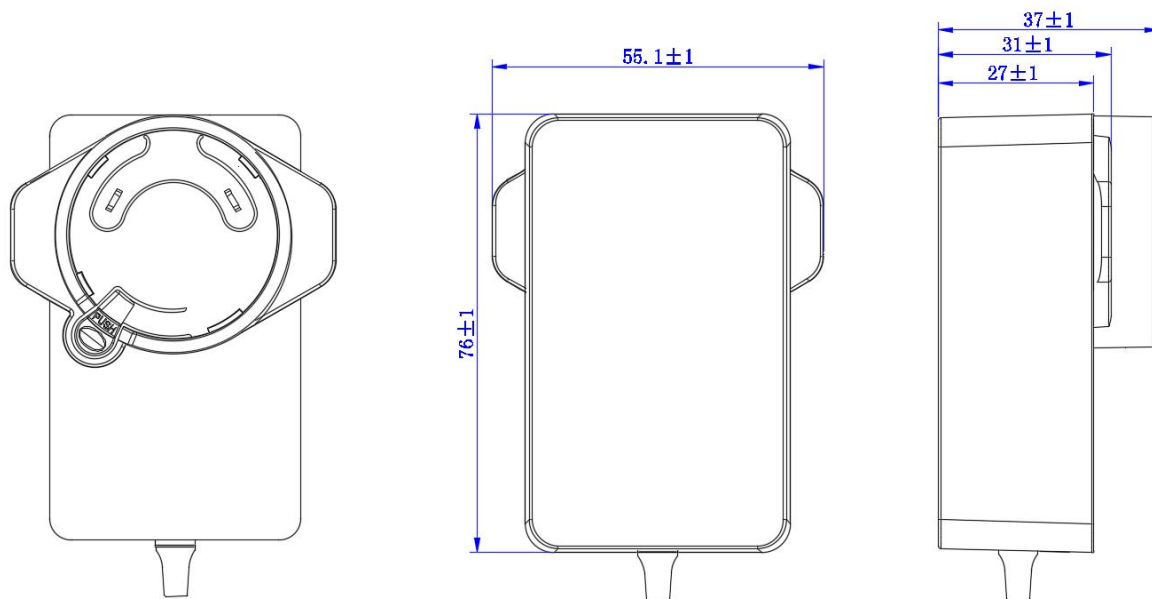


Us code pin

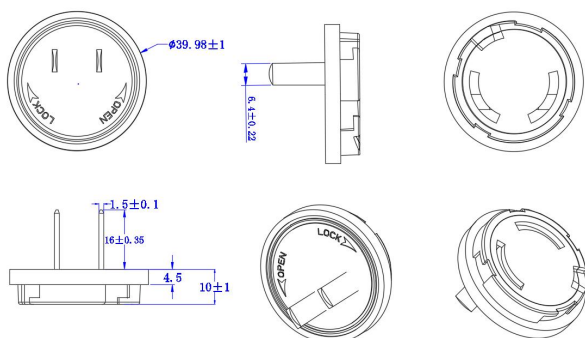


Head Replacement (Select based on customer requirements)

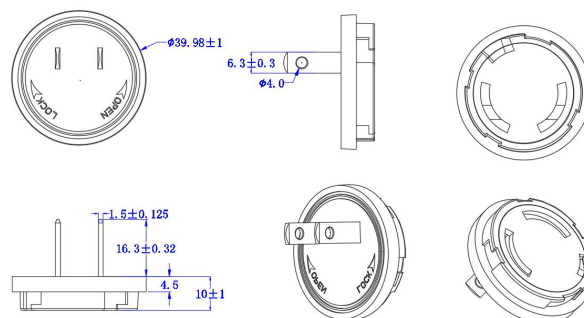
Activities of the foot



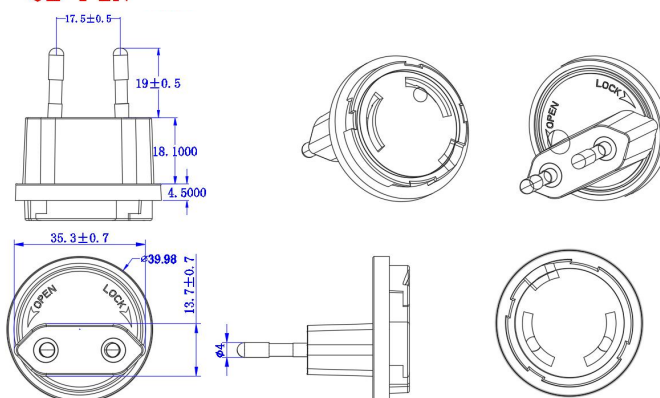
CCC PIN



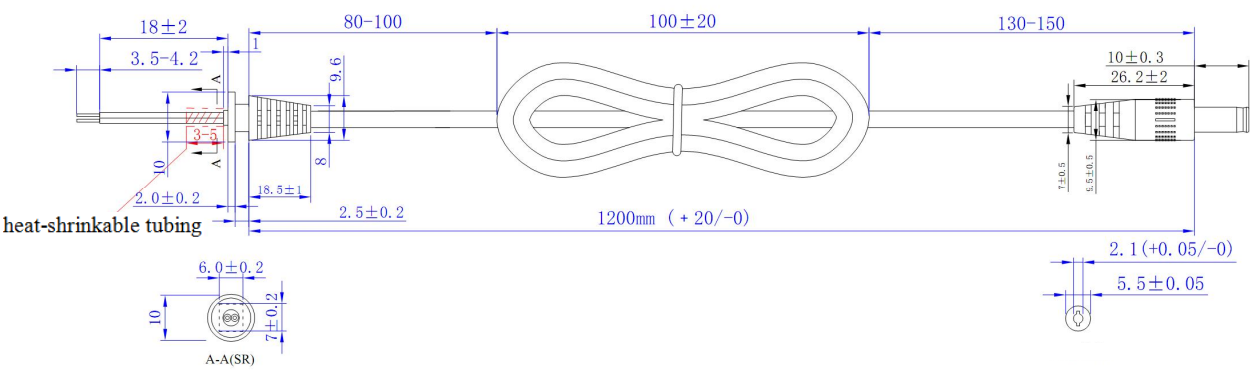
UL PIN

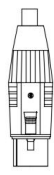
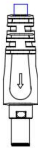
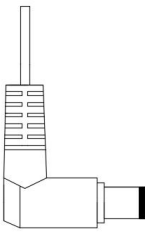
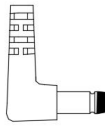
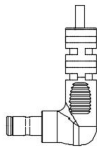
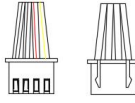


CE PIN



DC Wire appearance size: (wire) DC head, wire length, customized according to customer requirements



								
Head of flight	3-pin Cannon connector	With clip	5.5*2.5/2.1	7.4*5.0*0.6	7.9*5.5*0.9	5.5*2.5/2.1	5.5*2.5/2.1	Strip and tin
			 terminal					
5.5*2.5/2.1	5.5*2.5/2.1	5.5*2.5/2.1						

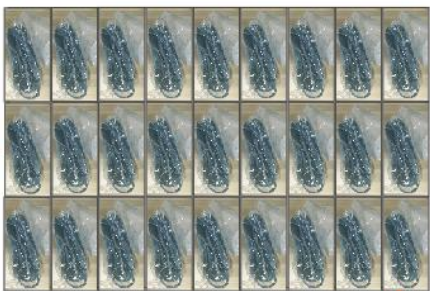
Packaging diagram: packaging can be customized according to customer needs



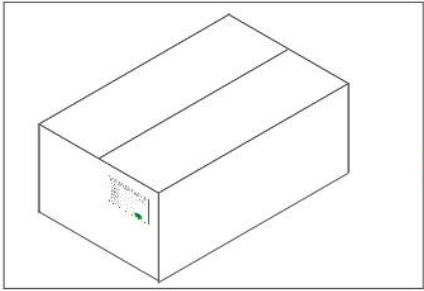
1.Product



2. The product is placed in a PE bag. The dimensions of the PE bag are: L190 * W120 * T0.07 mm.



3. Place the items on the dividers of the cardboard box, with 27 items on each layer.



1.Apply a label.



5. Outer box dimensions: L435 * W290 * H305mm.
The outer box surface does not have any printed text.
Each box contains 135 units, with 27 units per layer, totaling 5 layers.



1. Place one partition per floor

- Notes: 1. Product compliance with regulations: Refer to "Product Features", "EMC Specifications", and "Safety Standards";
2. Discarded products must be stored in compliance with ISO14001 and relevant environmental regulations, and handled by certified entities;
3. Performance may not meet all specifications if operating outside specified load ranges;
4. Unless otherwise noted, all test results are obtained under conditions of Ta=25°C temperature, <75%RH humidity, nominal input voltage, and rated output load;
5. All testing methods follow our company's internal standards;
6. Customization services are available upon request. For specific details, please contact our technical team directly.

