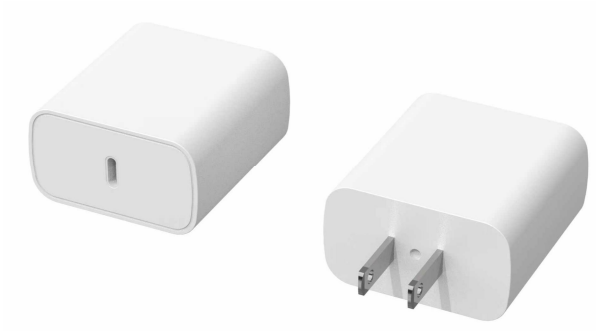
PD45W Fast Charging Adapter
A045

Product Features



- Worldwide standard voltage: 100-240VAC, 50/60Hz
- Energy efficiency rating DoE Level VI
- Overvoltage, overcurrent, and short circuit protection
- Fully enclosed plastic housing
- Type-C input interface
- Wall-mounted
- Comply with global certification requirements

The PD45W series is a desktop power adapter featuring a global input voltage range, low power consumption, high efficiency, high reliability, and safety isolation. It complies with UL 62368-1:2019 (Ed.3+R:22Oct2021), IEC 61558-2-16:2009, EN IEC 61558-1:2019, GB 17625.1-2022, GB 4943.1-2022, GB/T 9254.1-2021, and FCC Part 15 Subpart B:2022 standards. The series delivers output voltages from 5V to 20V, meeting the diverse requirements of consumer electronics, telecommunications equipment, office systems, and household appliances.

Electrical specifications				
model		A045X	A045X	A045X
output	DC Voltage	5V,9V	12V,15V	20V
	Rated current	3.0A	3.0A	2.25A
	Current range	0.01-3.00A	0.01-3.00A	0.01-2.25A
	rated power	45W	45W	45W
	Voltage accuracy	±5%	±5%	±5%
	Line Regulation	±3%	±3%	±3%
	Load Regulation	±5%	±5%	±5%
	Ripple &Noise(max)	200mVp-p max	200mVp-p max	200mVp-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	300ms max		
	overshoot	Maximum 10% when power is on or off		
	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	5V3A≥81.39% ， 9V3A:≥86.62% ， 12V3A≥87.4% ， 15V3A≥87.73% ， 20V2.25A≥87.73%		
	Input voltage	1.5A Max@90VAC fully loaded		
	Input voltage	Cold machine start: up to 50A at 264Vac input		
	No load power consumption	≤0.21W ,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% From recovery		
	Short circuit protection	Hiccups, sustained short circuit, self-recovery		
	Safety standards	UL/CUL, ETL/CETL,CCC,GS,CE, FCC,UKCA,		
	Color	Black\white\pink\purplee		
	Conventional Models	5V3A,9V3A,12V3A,15V3A,,20V2.25A;PPS:5-11V/3.3A,5-21V/2.25A		
notes	* Ripple and noise test method: Ripple and noise. When measuring ripple and noise, the oscilloscope is selected with a 20MHz bandwidth limit. A 0.1uF ceramic capacitor and a 10uF electrolytic capacitor are connected in parallel at the output end (input voltage 100~240Vac)			

General characteristics

project	working conditions	Min.	Typ.	Max.	unit
insulation voltage	Input-output, test time 60s, leakage current less than 10mA	1800	--	3000	VAC
insulation resistance	Input-output, insulation voltage 500VDC	100	--	--	M Ω
operation temperature	0℃ ~ 40℃, 20%~80% RH Non-Condensing	0		40	℃
storage temperature		-40		85	
Working humidity		20	--	80	%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\pink\purplee
Shell size	Plug-in type: European standard plug L88.8*W49.5H*28m， Standard Pin L67.9*W48.6*H27mm， US-style connector L67.6*W48.5*H27mm
weight	200g(Typ.)
Cooling method	Natural air cooling

Safety standard;EMI Standards

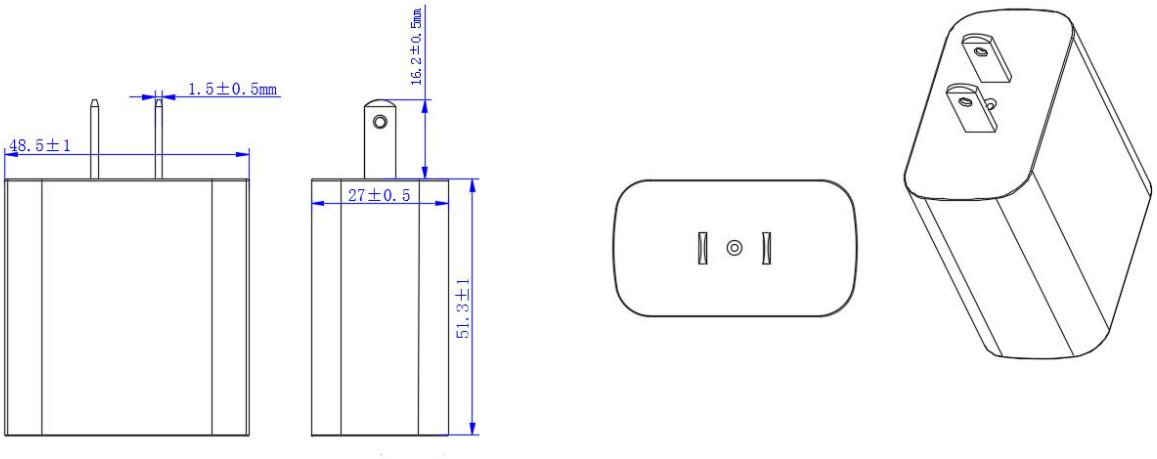
classification	standard	condition	remarks
Safety	UL 62368-1:2019 Ed.3+R:22Oct2021，IEC 61558-2-16:2009，EN IEC 61558-1:2019; GB 4943.1-2022;	accord with	
EMI	EN 55032; EN 55035;BS EN 55032; BS EN 55035;FCC PART 15B; GB17625.1-2022, GB/T 9254.1-2021;	accord with	

EMS Standards

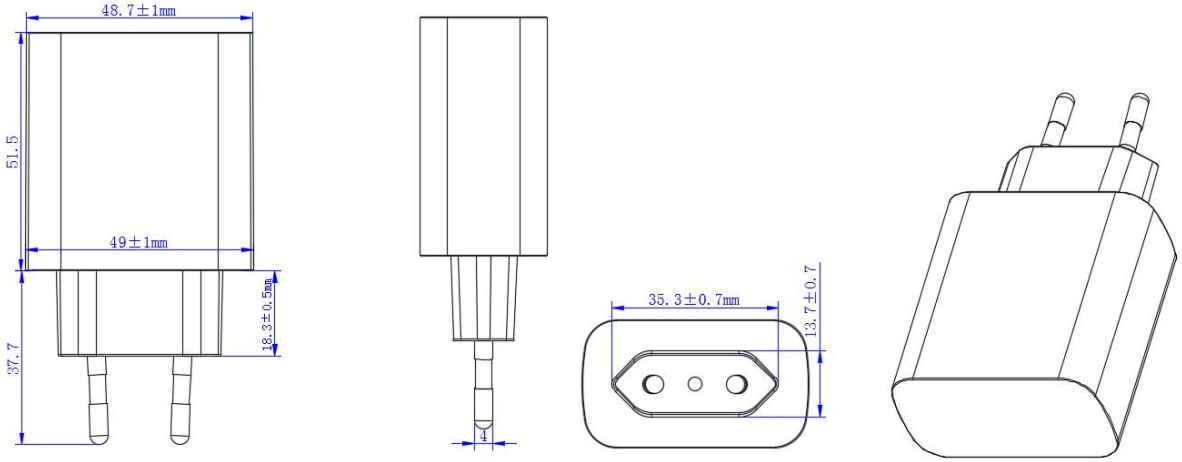
EN 61000-3-2	Harmonic current emissions
EN 61000-3-3	Voltage fluctuations & flicker
EN 61000-4-2	Electrostatic Discharge(ESD): 8kV air discharge, 4kV contact discharge
EN 61000-4-3	Radio-Frequency Electromagnetic Field Susceptibility Test-RS
EN 61000-4-4	Electrical Fast Transient/Burst-EFT
EN 61000-4-5	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

Appearance

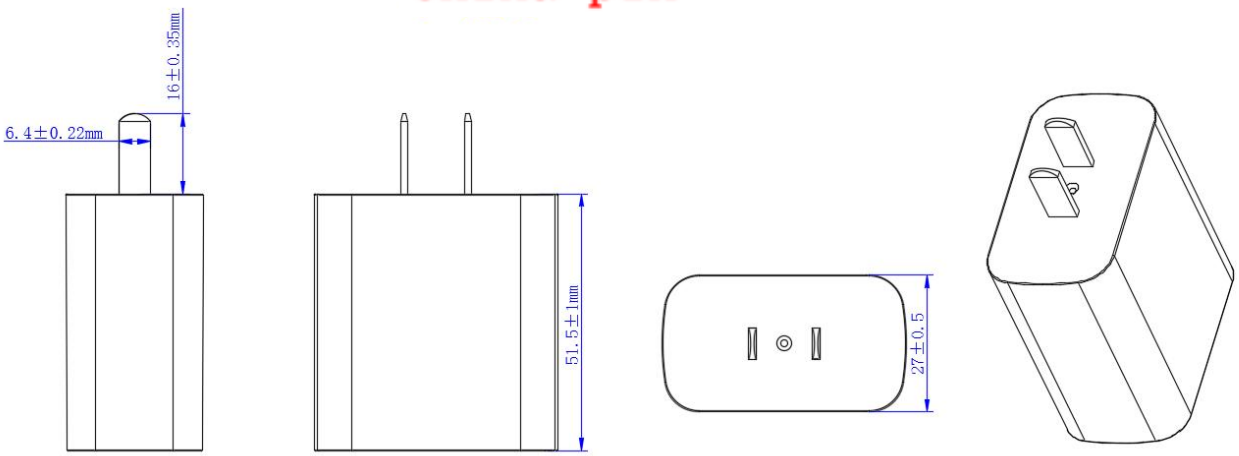
Us code pin



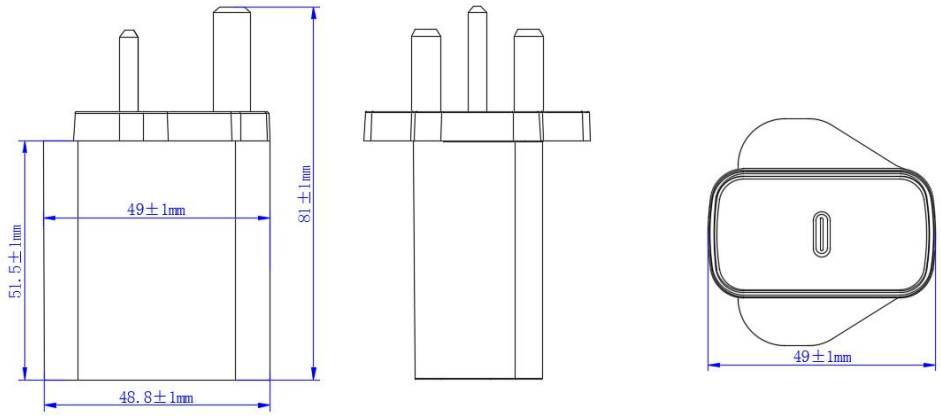
European code pin



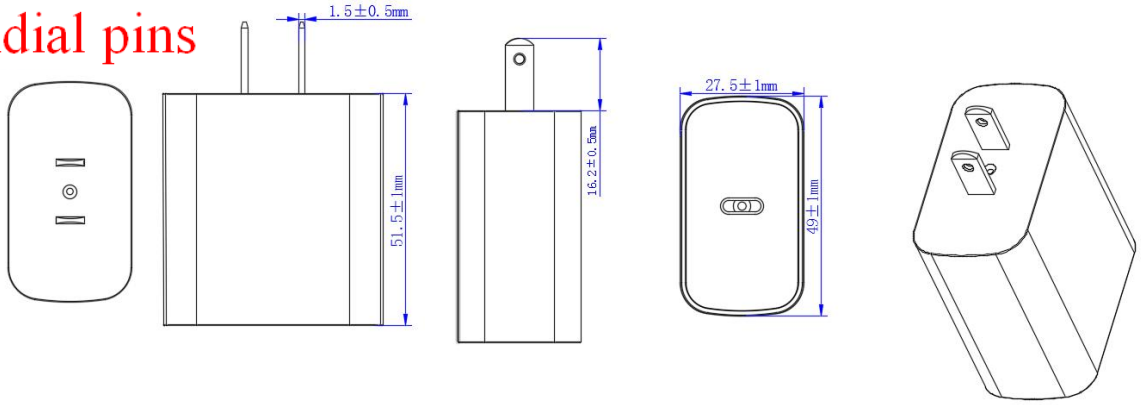
China pin



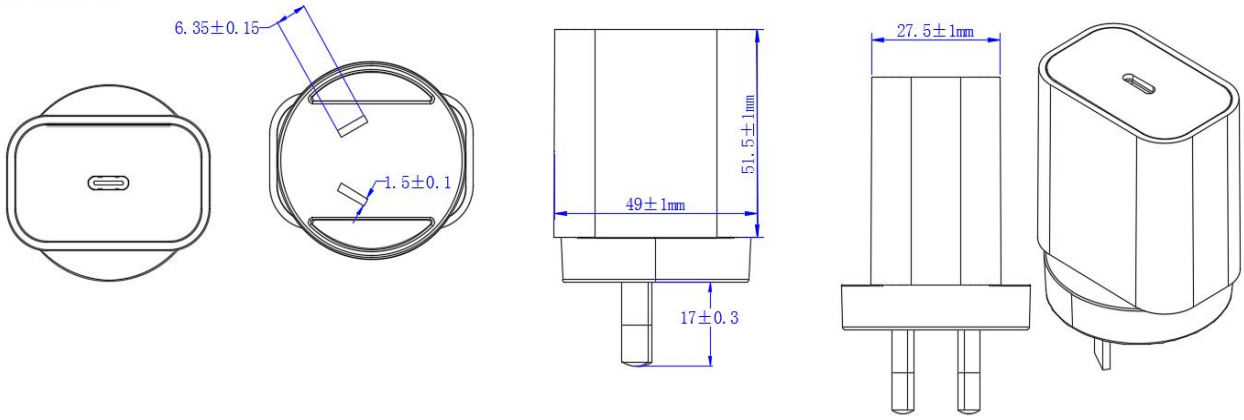
British pin



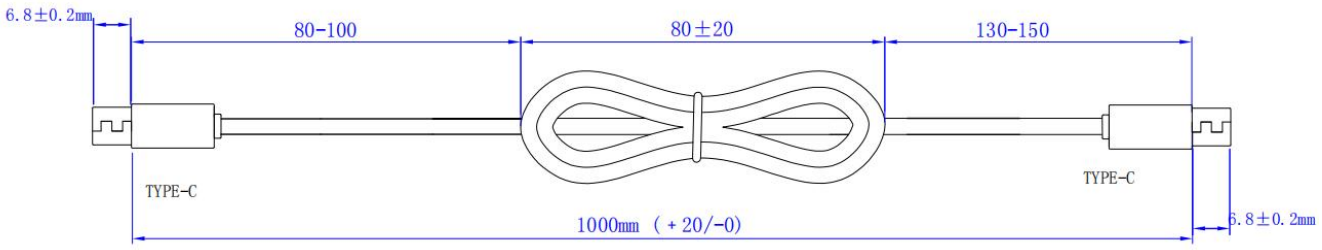
Sundial pins



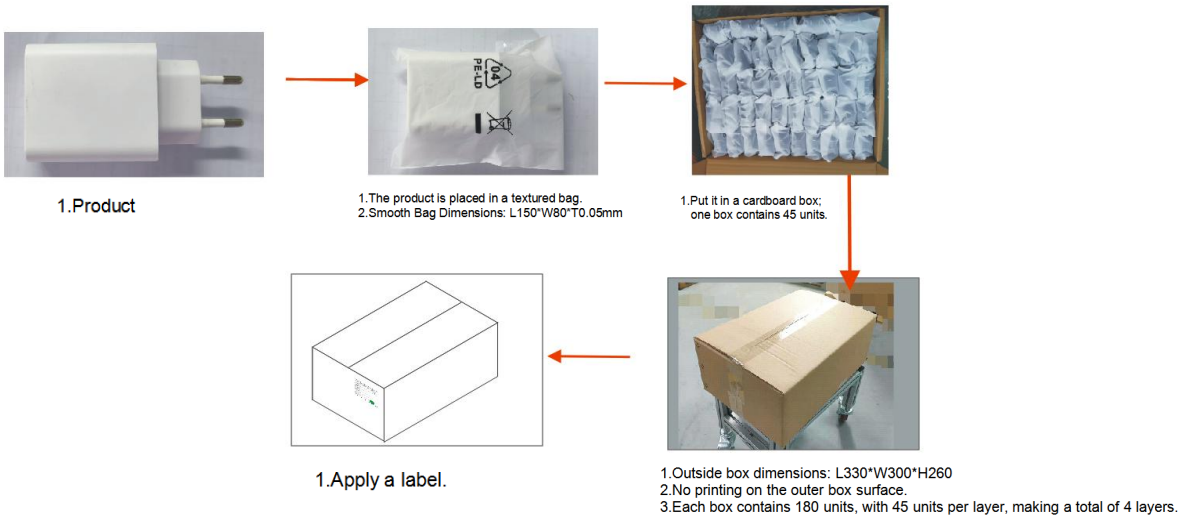
Australian pin



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



Packaging diagram: packaging can be customized according to customer needs



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℃ 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.

N-TECH ELECTRONICS.,LTD