

# PD100W Fast charging adapter A100



## Product features

- Global universal voltage: 100–240VAC, 50/60Hz
- Energy efficiency rating DoE Level VI
- Overvoltage, overcurrent, short circuit protection
- Fully enclosed plastic housing
- Plug-in wall input interface
- Plug-and-play
- Comply with global certification requirements



REACH  
RoHS

The PD100W series is a desktop adapter power supply. This series features a global input voltage range, low power consumption, high efficiency, high reliability, and safety isolation, meeting standards such as GB 17625.1-2012; GB 4943.1-2011; GB/T 9254.1-2021; UL 1310; EN 61558, and EN IEC 61558. The entire series offers output voltages ranging from 5V to 28V, catering to various consumer electronics, telecommunications equipment, office devices, and household applications.

## Electrical specifications

model		A100AC, A100AU,A100AE	A100D2	A100-280357D2
output	DC Voltage	5.0-15V(PD3.0protocol)	20.0V(PD3.0protocol)	28.0V(PD3.1protocol)
	Rated current	3A	5A	3.57A
	Current range	0.1-5.0A	0.1-5.0A	0.1-3.57A
	rated power	15W,27W,36W,45W	100W	100W
	Voltage accuracy	±5%	±5%	±5%
	Line Regulation	±3%	±3%	±3%
	Load Regulation	±5%	±5%	±5%
	Ripple &Noise(max)	150mVp-p max	200mVp-p max	280mVp-p max
	turn-on delay	4s@90VAC fully loaded		
	HOLD	10ms@115VAC fully loaded, 20ms@230VAC fully loaded		
	Output	Constant Voltage/Constant Voltage &Constant Current		
	rise time	30ms max		
	overshoot	When the power is on, the maximum is 10% when the power is 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	The average efficiency is not less than 88% under 115Vac and 230Vac input conditions. Test points are 25%,50%,75%, and 100% of maximum load.		
	Input voltage	1.8A Max@90VAC fully loaded		
	Input voltage	Cold machine start: up to 60A at 264Vac input		
	No load power consumption	≤0.21W ,At the input 115Vac/230Vac		
	Leakage current	0.25mA Max@264VAC		
protect	Overvoltage protection	110%-150% of the rated output voltage		
	Overcurrent protection	Rated output current 110%-200%, self-recovery		
	Short circuit protection	Hypersomnia, sustained short circuit, self-recovery		
	Safety standards	ETL,CCC,CE,FCC		
	Color	Black\white		
	Conventional Models	A100AC,A100AU,A100AE,A100D2,A100-280357D2, A100BCX,A100-200500AU,A100-200500AE		
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	--	--	3000	VAC
insulation resistance	Input-output, insulation voltage 500VDC	100	--	--	M Ω
operation temperature	0℃ ~ 40℃, 5%~90% RH Non-Condensing	0		35	℃
storage temperature		-40		85	
Working humidity		20	--	80	%RH
Storage humidity	5%-90% 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	L65.5*W65*H31mm
weight	250g(Typ.)
Cooling method	Natural air cooling

## Safety standard;EMI Standards

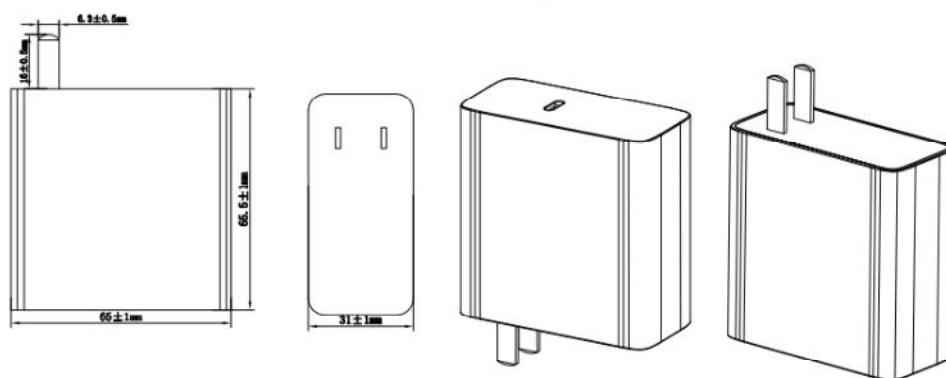
classification	standard	condition	remarks
Safety	EN 62368;EN IEC 62368;UL 1310;GB 17625.1-2022;GB 4943.1-2022;GB/T 9254.1-2021	accord with	
EMI	EN 55032; EN 55035;GB17625.1 -2022, GB/T 9254.1-2021	accord with	

## EMS Standards

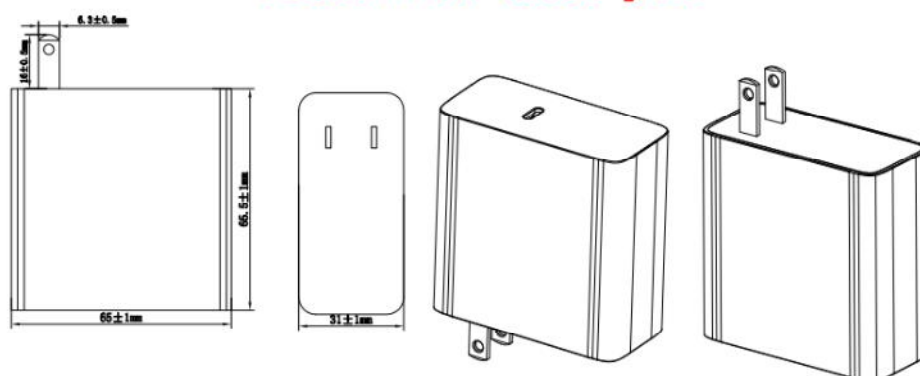
EN 61000-3-2	Harmonic current emissions
EN 61000-3-3	Voltage fluctuations & flicker
EN 61000-4-2	Electrostatic Discharge(ESD): 8kV air discharge, 4kV contact discharge
EN 61000-4-3	Radio-Frequency Electromagnetic Field Susceptibility Test-RS
EN 61000-4-4	Electrical Fast Transient/Burst-EFT
EN 61000-4-5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

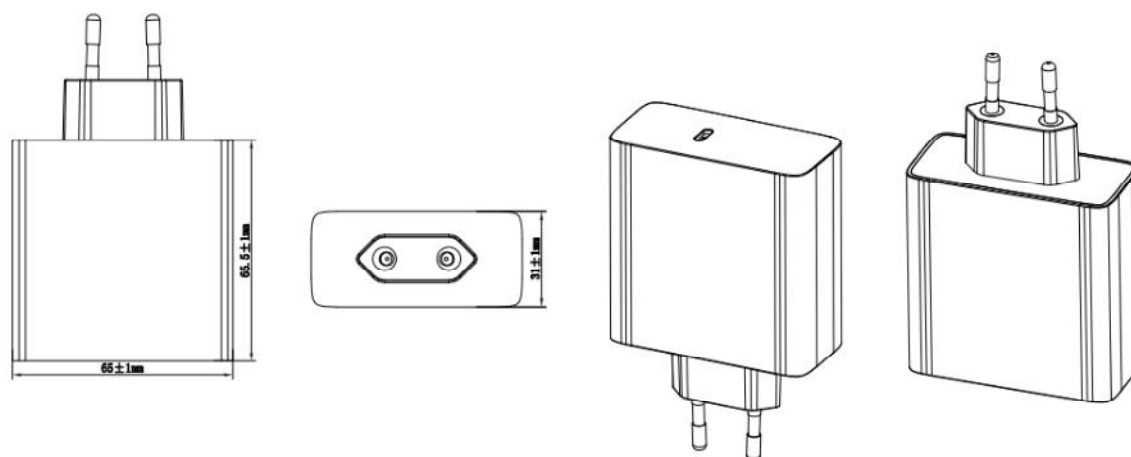
## PD100W China pin



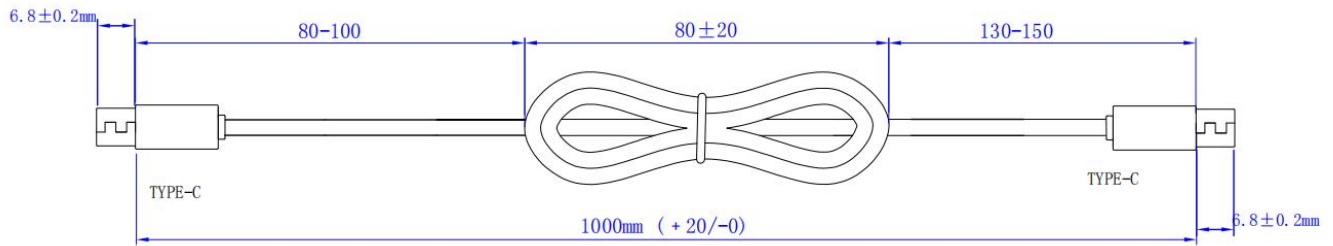
## PD100W Us code pin



## PD100W European code 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

Unless special requirement of customer, the packing style shall be performed according to sunup company's style.

#### 12.1 Inner package

PE bag

#### 12.2 outer package

Paper-box

#### 12.3 Outer package notes include the information

Customer Name, LOT Number, Model NO., Date, and so on

- 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  $T_a=25^\circ\text{C}$  temperature,  $<75\%\text{RH}$  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.



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