

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

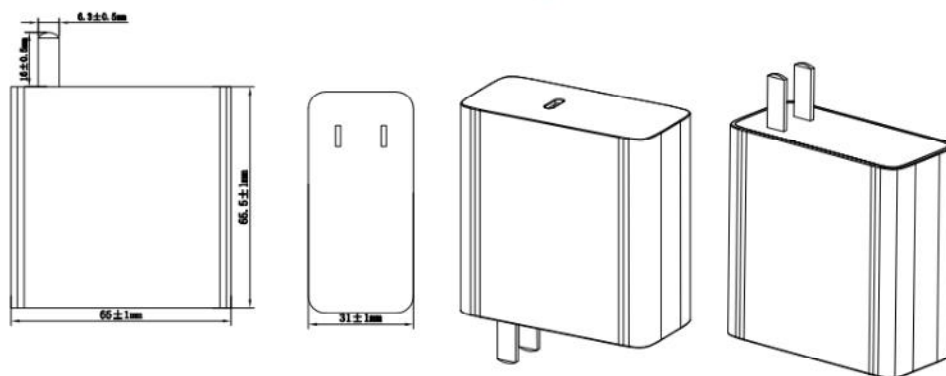
classification	standard	condition	remarks
Safety	EN 62368;EN IEC 62368;UL 1310;GB 17625.1-2022;GB 4943.1-2022;GB/T 9254.1-2021	accord with	
EMI	EN 55032; EN 55035;GB17625.1 -2022, GB/T 9254.1-2021	accord with	

EMS Standards

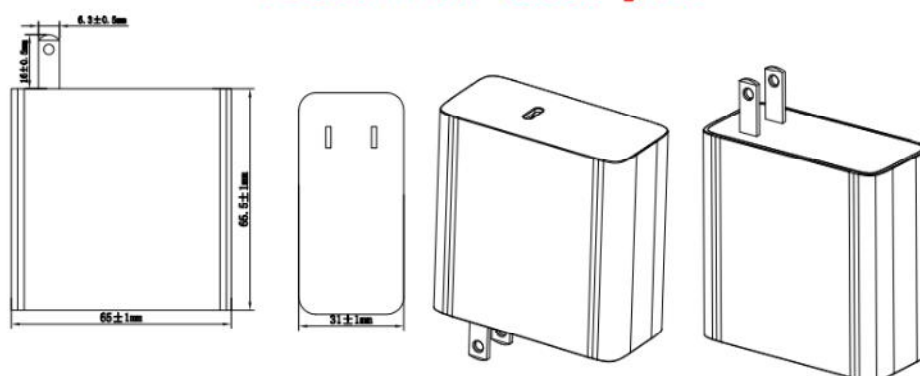
EN 61000-3-2	Harmonic current emissions
EN 61000-3-3	Voltage fluctuations & flicker
EN 61000-4-2	Electrostatic Discharge(ESD): 8kV air discharge, 4kV contact discharge
EN 61000-4-3	Radio-Frequency Electromagnetic Field Susceptibility Test-RS
EN 61000-4-4	Electrical Fast Transient/Burst-EFT
EN 61000-4-5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

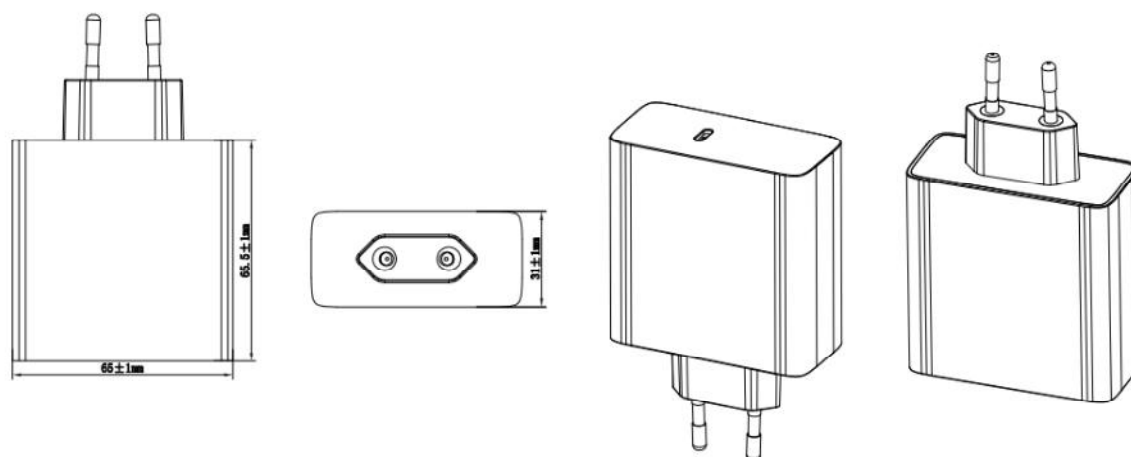
PD100W China pin



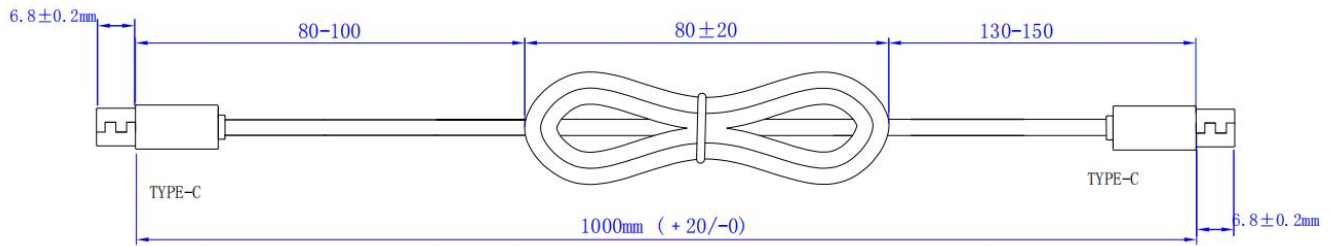
PD100W Us code pin



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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