

65W Wall Plug Adaptor

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**RoHS
Compliant**



Features

- SMPS Adaptor(Wall mount)
- SMPS Adaptor(Desk-top)
- USB Charger
- Open Frame
- Others

Input Characteristics

Max charger load

TYPE-C maximum charge current is 3.25A.

Input Voltage & Frequency

The range of input voltage is from 90V AC to 264V AC single phase.

	Minimum	Nominal	Maximum
Input Voltage	90V AC	100V AC to 240V AC	264V AC
Input Frequency	60Hz/50Hz		

Input AC Current/AC

1.3Amax. @ 100-240V AC input & Full load

Inrush Current (cold start)

100Amax. @ 264V AC input

Energy Consumption

100-240V ≤0.1W

Output Characteristics

Static Output Characteristics <Vo & R+N>

Voltage V	5V	9V	12V	15V	20V
Voltage range (V)	4.75V-5.25V	8.55V-9.45V	11.4V-12.6V	14.25V-15.75V	19V-21V
Current (A)	3A	3A	3A	3A	3.25A
OCP(Max)	3.8A	3.8A	3.8A	3.8A	4.1A

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Project	Company	Minimum value	Maximum	Test conditions
Output efficiency	%	81.39	/	5V output mode, 230V AC, 115V AC
		86.62		9V output mode, 230V AC, 115V AC
		87.40		12V output mode, 230V AC, 115V AC
		87.73		15V output mode, 230V AC, 115V AC
		88		20V output mode, 230V AC, 115V AC
No load power consumption	W	/	0.1	230V AC / no load, 115V AC / no load
Output ripple	mV	/	200	Input AC 90 / 60Hz & 264v / 50 Hz respectively to test the output voltage ripple of charger under full current load condition. The limited bandwidth of oscilloscope is 20MHz, and the output is increased by 47uF electrolysis and 0.1uF ceramic chip capacitor
Load adjustment rate	%	-5	+5	Under the condition of rated input voltage and maximum output current, load variation: minimum → maximum → minimum
Linear adjustment rate	%	-2	+2	In the input voltage range, the maximum output current
Dynamic response overshoot	V	±7% Vout	/	25%~50%, 50%~75% load changes, the current change rate is 0.2A/us, cycle T1=T2=10mS, 50% duty cycle.
Output hold time	ms	10	/	115V AC / rated load
Startup delay	s	/	3	115V AC / rated load
Switch on / off overshoot	%	/	+10	Full input voltage range, rated load
Output rise time	ms	/	50	115V AC / 230V AC input voltage, rated load
Output drop time	ms	/	100	115V AC / 230V AC input voltage, rated load
Common mode noise test	V	/	2	Meet en62684 standard
Circuit protection	/	/	/	This product can work without damage under continuous output short circuit. The short circuit may be before or after power on. When the short circuit is removed, the charger can automatically return to normal working state. When the output is short-circuited, the charger will enter the short circuit protection mode, and the circuit will enter the cycle by cycle mode.
Reverse current	mA	/	5	Slowly apply 0-4.75V DC voltage between the positive and negative terminals of the output terminal, and the stable current passing through the equipment is not allowed to exceed 5mA

Protection Requirements

Over Power Protection

Over power protection is 82W

Short Circuit Protection

The input power shall decrease when the output rail short, the power supply shall no damage, and shall be self-recovery when the fault condition is removed

Environment Requirements

Operating Temperature and Relative Humidity

0°C to +40°C

10%RH to 90%RH

Storage Temperature and Relative Humidity

-20°C to +80°C

5%RH to 95%RH non-condensing @ Sea level shall be low 2,000 meter

Vibration

10 to 300Hz sweep at a constant acceleration of 1.0G(Breadth: 3.5mm) for 1Hour for each of the perpendicular axes X, Y, Z

Reliability Requirements

Burn-in

The power supply shall be burn-in for 4 Hours under normal input and 80% rated load at 25°C

MTBF

When the power supply works under the working conditions specified in this specification, the mean time between failures shall be at least 20000 hours

Safety Standards

Dielectric Strength(Hi-pot)

Primary to Secondary: 3000V AC / 10mA Max / 60 second

Primary to Secondary: 3300V AC / 5mA Max /3S

Leakage Current

0.25mA max. at 264V AC / 50Hz

Insulation Resistance

50MΩ min. at primary to secondary add 500V DC test voltage

Regulatory Standards

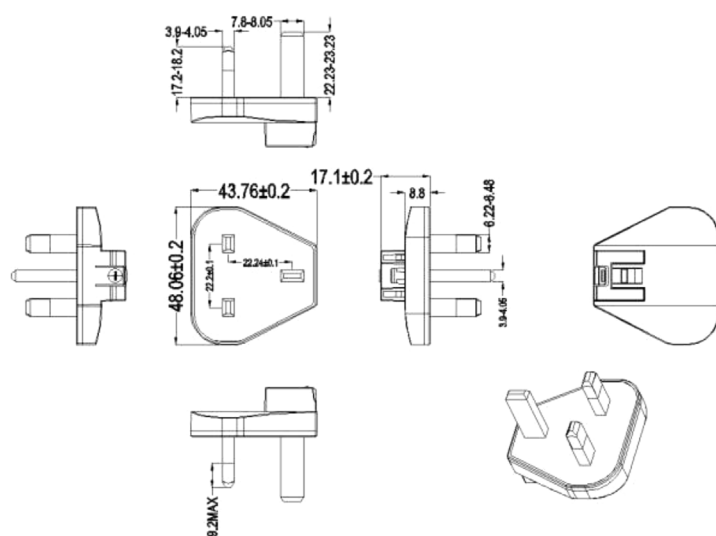
Type	Country	Standard
CE	Europe	EN62368
UKCA	Britain	BS EN62368

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Technical drawings of the USB-C to USB-A adapter showing various views and dimensions:

- Top View:** Shows the USB-C port with dimensions: 12.58-12.82, 1.396-1.65, 05.5 ±0.5, 03.835-4.08, 15.9-16.2, 11.41-12.1, 03.047-3.30, 6.1-6.6.
- Bottom View:** Shows the USB-A port with dimensions: 17.32, 8.8, 19±0.5, 4±0.06.
- Side View:** Shows the adapter's profile with dimensions: 42.81±0.2, 30.61±0.2, 35.4±0.3, 17.5±0.5.
- Front View:** Shows the USB-A port with dimensions: 17.5±0.5.
- Back View:** Shows the USB-C port with dimensions: 17.5±0.5.
- Isometric View:** Shows the adapter from an isometric perspective.

Please see the Measurements

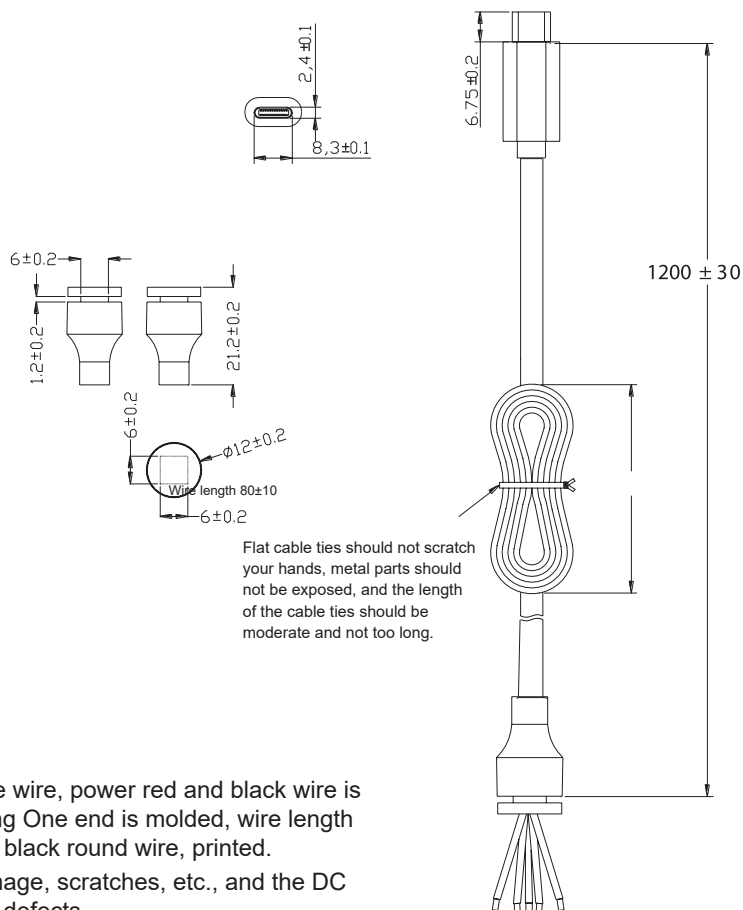


Black shell
Shell material: ■PC
Note: PC material meets the requirements
of ball pressure test

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DC Cord Drawing



Technical requirements:

1. DC line: one end TYPE-C, five-core wire, power red and black wire is 22#, signal wire is 28# with shielding One end is molded, wire length is 1.2 meters PVC coating material black round wire, printed.
2. The surface of the wire has no damage, scratches, etc., and the DC line outer mold has no appearance defects
3. Cable tie: black cable tie L=90mm
4. Test requirements: short circuit, open circuit, dislocation 100% passed; insulation resistance $\geq 10M\Omega$
5. Packaging: 10PCS/tie
6. Must meet environmental protection requirements

Part Number Table

Description	Part Number
Wall Plug Adapter, Black, 65W, 20V DC, US Plug	MP015675
Wall Plug Adapter, White, 65W, 20V DC, EU Plug	MP015676

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