



45 Watt USB Power Delivery 2.0 Adapter with USB-C



Features

- Power Delivery 2.0
- USB-C
- Limited Power Source (LPS)
- OVP, OCP, OTP and Short Circuit Protection
- DOE Level VI, CoC V5 Tier 2
- Class B EMI

Applications

- Mobile Phone
- Tablet
- Notebook
- Networking Devices
- Monitor

Safety Approvals (Preliminary)

- UL/cUL
- CB
- CE

Mechanical Characteristics

- Length: 67mm (2.64in)
- Width: 48mm (1.89in)
- Height: 29mm (1.41in)
- Weight: 145g (.32lbs)

Output Specifications

Model	Prong Style	DC Output Voltage	Current Rating	Ripple ⁽¹⁾ P-P (max.)
AQ45A-59FA-H	US	5V/9V/15V	3A/3A/3A	200mV
AQ45E-59FA-H	EU	5V/9V/15V	3A/3A/3A	200mV

Notes: (1) Measured by using a 12 inch twisted pair terminated with a 10uF & 0.1uF ceramic in parallel. Oscilloscope is set to 20MHz.

Phihong is not responsible for any error, and reserves the right to make changes without notice. Please visit our website at www.phihong.com for the most up-to-date specifications and contact information.

Input:

AC Input Voltage Rating

100 to 240V AC

AC Input Voltage Range

90 to 264V AC

AC Input Frequency

50 to 60Hz

Input Current

<1A (RMS) maximum at 90Vac @max load

Leakage Current

0.25mA Max.

Inrush Current

90Amax @240Vac/50Hz (Cold start)

Input Power Saving

.075W max @230VAC /50Hz

Output:

Efficiency

US DOE Level VI

CoC V5 Tier 2

Environmental:

Temperature

Operation 0°C to +45°C

Non-operation -40°C to +85°C

Humidity 90% RH max

DC Output Connector

USB Type C

Emissions

Complies with FCC Class B

Complies with EN55022 Class B

Immunity

IEC61000-4-2:

Level 2, Contact ±4KV, Criteria B

Level 3, Air ±8KV, Criteria B

Level 4, Contact ±8KV, Criteria C

Level 4, Air ±15KV, Criteria C

IEC61000-4-3, Level 2, Criteria A

IEC61000-4-4, Level 2, Criteria B

IEC61000-4-5, Level 3, Criteria B

IEC61000-4-6, Level 2, Criteria A

IEC61000-4-8, Level 1, Criteria A

Hold-up Time

10.3mS minimum at 110V/60Hz, Output 20V/2.25A

Over-Voltage Protection

<20V, shutdown mode

Over-Temperature Protection

Shutdown mode

Over-Current Protection

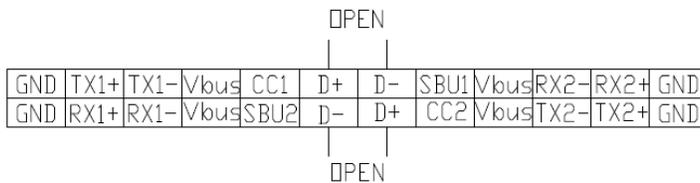
Output current shall not exceed 4.5A

Short-Circuit Protection

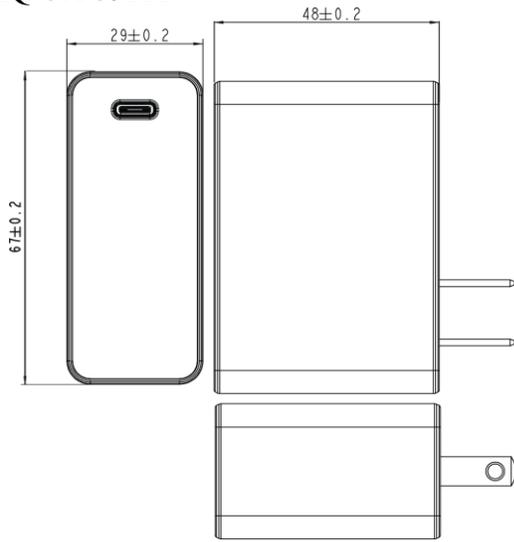
Auto Recover

Dielectric Withstand (Hi-pot) Test

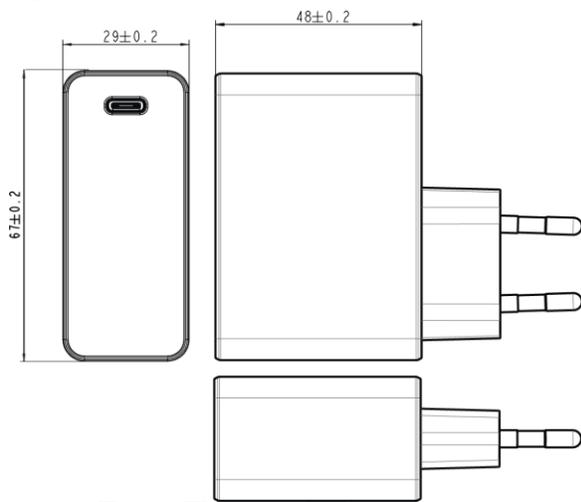
Primary to Secondary: 3000V AC for 1 min., 10mA



AQ45A-59FA



AQ45E-59FA



**Supplier's Declaration of Conformity
47 CFR § 2.1077 Compliance Information**

Models: AQ45A-59FA-H

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NOTE: This model has/The models in this products series have been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Changes or modifications to equipment not expressly approved by PHIHONG could void the user's authority to operate the equipment.