



## 36 Watt USB Power Delivery 3.0 Adapter with USB-C



### Features

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

### 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: 130g (.29lbs)

### Output Specifications

Model	Prong Style	DC Output Voltage	Current Rating	Ripple <sup>(1)</sup> P-P (max.)	Efficiency Level
AQ36A-59FA	US	5V/9V/15V	3A/3A/2.4A	200mV	VI
AQ36E-59FA	EU	5V/9V/15V	3A/3A/2.4A	200mV	VI

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](http://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**  
<0.9A (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**  
FCC Class B  
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

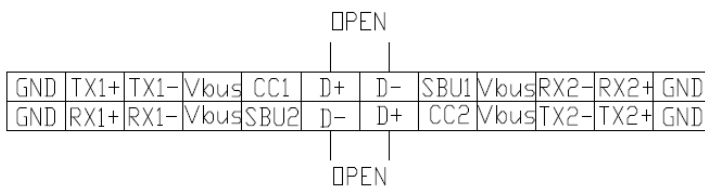
**Over-Voltage Protection**  
<20V, shutdown mode

**Over-Temperature Protection**  
Shutdown mode

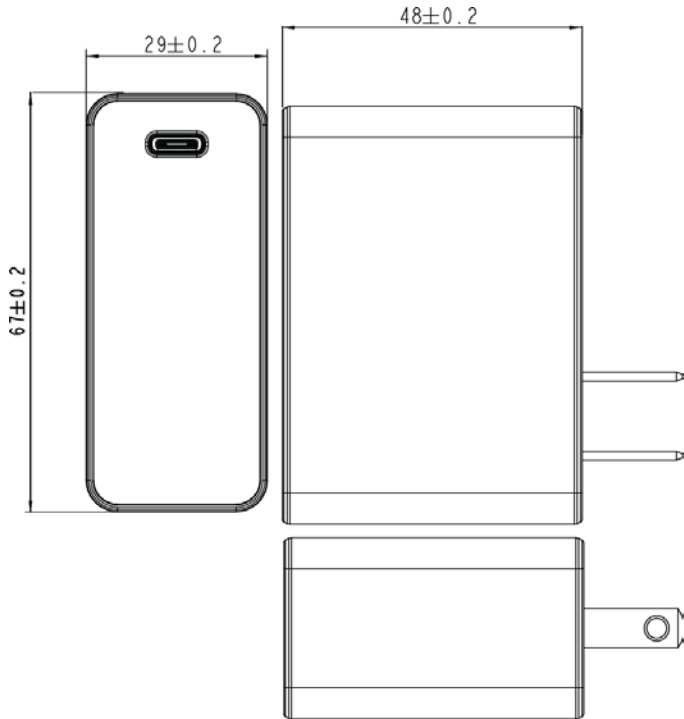
**Over-Current Protection**  
Output current shall not exceed 4.5A@5V and 9V;  
4A@15V

**Short-Circuit Protection**  
Auto Recover

**Dielectric Withstand (Hi-pot) Test**  
Primary to Secondary: 3000V AC for 1 min., 10mA



**AQ36A-59FA Dimension Diagram Unit: mm (inch)**



**AQ36E-59FA Dimension Diagram Unit: mm (inch)**

