



18W Fixed Pin Quick Charge 3.0 Adapter

AQ18x-308A-H

● 3.6V-6V CC Mode & 6.2V-12V CP Mode ● Fixed Pin ● USB ● Black/White



Phihong Quick Charge 3.0 (QC 3.0) adapters are tested and certified to Quick Charge 3.0 (QC 3.0) standard. This new product supports automatic sensing and switching constantly at 3.6V-6V constant current mode (3A max) & 6.2V-12V constant power mode (18W max). It can power QC 3.0-enabled devices efficiently to charge 4 times faster than conventional charging devices. Additionally, Phihong QC 3.0 meet DoE level VI and CoC V5 Tier 2 high-efficiency standards and certified to UL, CCC, CB, CE, SAA, C-Tick safety specifications.

Features :

| | |
|-----------------------|---|
| Efficiency | DoE Level VI & CoC V5 Tier 2 |
| No Load Input Power | <75mW @ 115Vac/230Vac |
| Protection | OVP, OCP, SCP |
| Isolation | 3000Vac, Primary to secondary 10mA, 1 min |
| Insulation Resistance | Primary to secondary >50MΩ min @500Vdc |
| OCP | Output current shall not exceed 3.6A |
| SCP | Shorted permanently without damage |
| OVP | 7.8V(3.6V-5V mode); 156%*V (5.2V-12V mode) |
| Average Efficiency | 85.45% |
| Efficiency @ 10% load | 74.5% |
| Dimension (mm) | 45 x 27 x 45 |
| Weight (g) | 49 |
| AC Plug | US, UK, EU, Korea |

Electrical Specifications :

| | |
|-----------------------|---|
| Input Voltage | 100~240Vac (90~264Vac min/max) |
| Frequency | 50/60Hz Nom (47~63Hz min/max) |
| Input Current | 0.5A (RMS) max |
| Output Voltage | 3.6V-6V constant current mode (3A max); 6.2V-12V constant power mode (18W max) |
| Output Current | 0~3A |
| Maximum Output Power | 18W |
| Output Ripple & Noise | 180mVpk-pk |
| Earth Leakage Current | 20uA max |
| AC Inrush Current | 60A @ 25°C, cold start |
| Rise Time | <50ms @ max load, 115Vac/60Hz |
| Fall Time | <50ms @ max load, 115Vac/60Hz |
| Hold-up Time | >5ms @ max load, 115Vac/60Hz |
| Turn-On Delay Time | <3 S at nominal AC power on. |

Environmental Specifications :

| | |
|-----------------------|------------------------------|
| Operating Temperature | -5°C ~ +45°C |
| Storage Temperature | -40°C ~ +85°C |
| Humidity, Operation | 0~90% RH |
| Humidity, Storage | 0~90% RH |
| MTBF (MIL-HDBK-217F) | 100k hours @ full load, 25°C |

Safety and Compliance :

| | |
|----------------------|---------------------------------------|
| Safety Requirement | UL, CCC, CB, CE, SAA, C-Tick |
| Immunity requirement | |
| ESD | EN61000-4-2 (Contact:±8KV, Air:±15KV) |
| RS | EN61000-4-3 Level 2 |
| EFT | EN61000-4-4 Level 2 |
| Surge Test | EN61000-4-5 (Line to Neutral:±1KV) |
| CS Test | EN61000-4-6 Level 2 |
| MS Test | EN61000-4-8 Level 1 |
| DIP Test | EN61000-4-11 |
| Harmonic | EN61000-3-2 |
| Flicker | EN61000-3-3 |
| EMI Requirement | FCC Class B EN55022 Class B |



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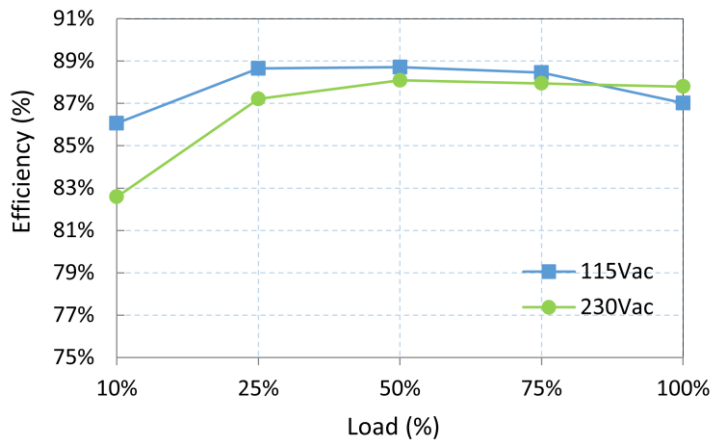
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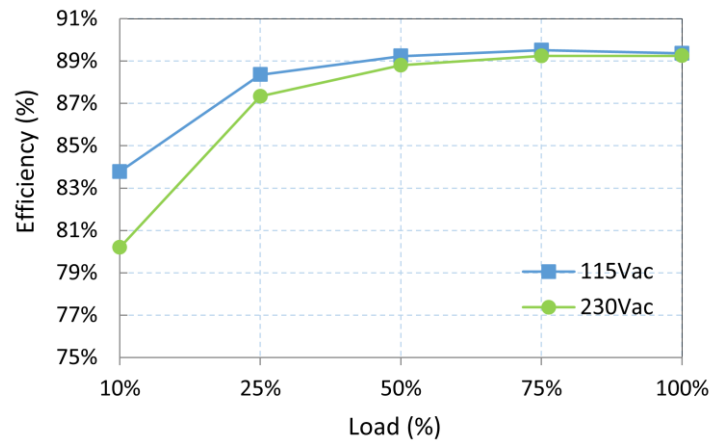
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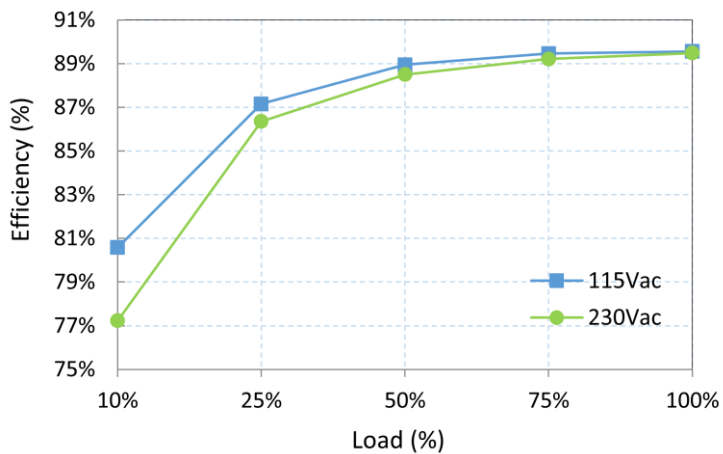
Efficiency (5V/3A)



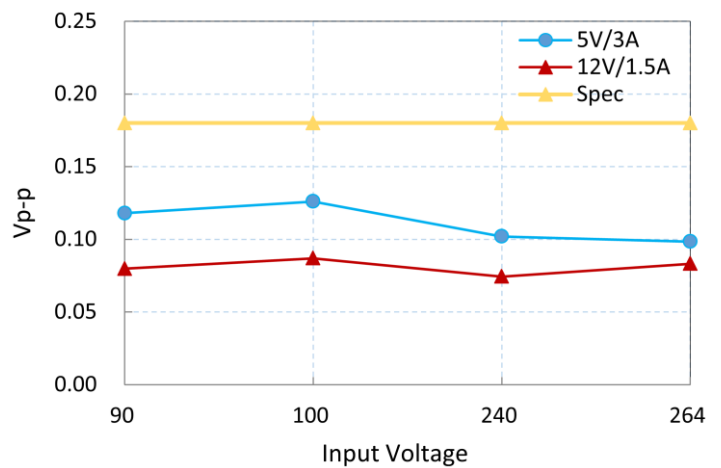
Efficiency (9V/2A)



Efficiency (12V/1.5A)



Noise & Ripple



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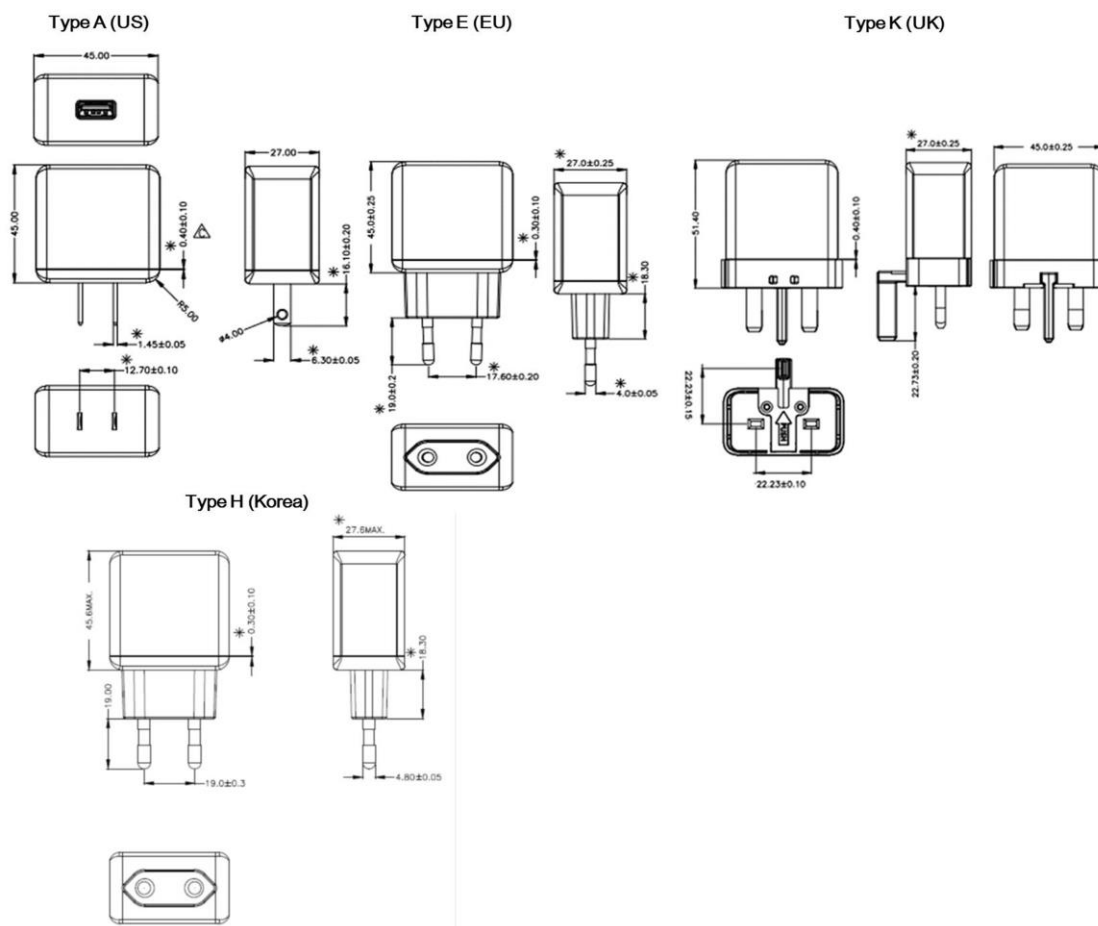
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Dimensions: mm



Model Selections

| Model Number | Plug Type | Case Color | Output Current (A $\pm 5\%$) | Output Voltage (Vdc) | Max. Output Power (W) |
|--------------|-----------|-------------|-------------------------------|------------------------------------|-----------------------|
| AQ18A-308A-H | US | Black/White | 0-3A | 3.6V-6V CC Mode & 6.2V-12V CP Mode | 18 |
| AQ18E-308A-H | EU | Black/White | 0-3A | | 18 |
| AQ18H-308A-H | Korea | Black/White | 0-3A | | 18 |
| AQ18K-308A-H | UK | Black/White | 0-3A | | 18 |

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