



12W DoE VI Fixed Pin Adapter

PSAC12A-120-R/ PSAC12A-150-R/ PSAC12A-240-R/ PSAC12A-480-R

● 12V/1.0A; 15V/0.8A; 24V/0.5A; 48V/0.25A ● DoE VI



Featuring universal input from 90V to 264V, Phihong PSAC12A series fixed pin adapter have 12W output power and 12V, 15V, 24V or 48V voltage output, to meet your needs. PSAC12A series meet DoE Level VI energy efficiency requirement and achieve no load power consumption lower than 100mW and 82.96% min. average efficiency. It is compliant with or approved by UL/cUL 60950-1, CB and EN55022 Class B.

Features :

| | |
|-----------------------|--|
| Efficiency | DoE Level VI |
| No Load Input Power | ≤ 100mW @ 115/230Vac |
| Protection | OVP, OCP, SCP |
| Isolation | 3000Vac, Primary to secondary 10mA, 1 min |
| Insulation Resistance | Primary to secondary >7MΩ @500Vdc |
| OCP | 1.5A max, Auto-restart |
| SCP | Shorted without damage and auto-recovery within 2 seconds. |
| OVP | Output voltage <22Vdc |
| Average Efficiency | 82.96% min @ 115/230Vac |
| 10% load efficiency | 70.16% min @ 230Vac/50Hz |
| Dimension (mm) | 71.5 x 50.0 x 31.2 |
| Weight | 124 ± 5 g |
| AC Plug | US |

Electrical Specifications :

| | |
|-----------------------|--|
| Input Voltage | 100~240Vac (90~264Vac min/max) |
| Frequency | 50/60Hz Nom (47~63Hz min/max) |
| Input Current | 0.5A (RMS) max @ 120Vac; 0.25A (RMS) max @ 230Vac |
| Output Voltage | 12V±5%; 15V±5%; 24V±5%; 48V±5%; |
| Output Current | 1.0A / 0.8A / 0.5A / 0.25A |
| Maximum Output Power | 12W continuous |
| Output Ripple & Noise | ≤150mVpk-pk; ≤240mVpk-pk; |
| Earth Leakage Current | ≤0.25mA at all line conditions |
| AC Inrush Current | 30A max at 120Vac; 60A max at 230Vac |
| Hold-up Time | 8mS min @ 120Vac max load |

Environmental Specifications :

| | |
|-----------------------|----------------------------------|
| Operating Temperature | 0°C ~ +40°C |
| Storage Temperature | -40°C ~ +85°C |
| Humidity, Operation | 50% to 90% RH |
| Humidity, Storage | 50% to 90% RH |
| E-capacitor lifetime | ≥ 4yrs at 80% load, 35°C ambient |

Safety and Compliance :

| | |
|-------------------------------------|--|
| Safety Requirement | UL/cUL 60950-1, 2 nd Edition, CB Report to IEC 60950-1, 2 nd Edition + Amd1 + Amd2 |
| EMC Emission | |
| Radiated Emission | EN55022 Class B |
| Conducted Emission | EN55022 Class B |
| AC line harmonic current emission | EN61000-3-2 Class A |
| Voltage Fluctuations & Flicker Test | EN61000-3-3 Class A |
| EMC Immunity | |
| ESD | 61000-4-2 Criterion A |
| Radiated RF Immunity | 61000-4-3 Criterion A |
| EFT | 61000-4-4 Criterion A |
| Surge | 61000-4-5 Criterion A |
| Conducted Disturbances | 61000-4-6 Criterion A |
| Voltage Dips Immunity | 61000-4-11 Criterion A & B |
| RoHS / WEEE / REACH | Comply RoHS Directive 2011/65/EC WEEE Directive 2002/96/EC REACH EC1907/2006 |



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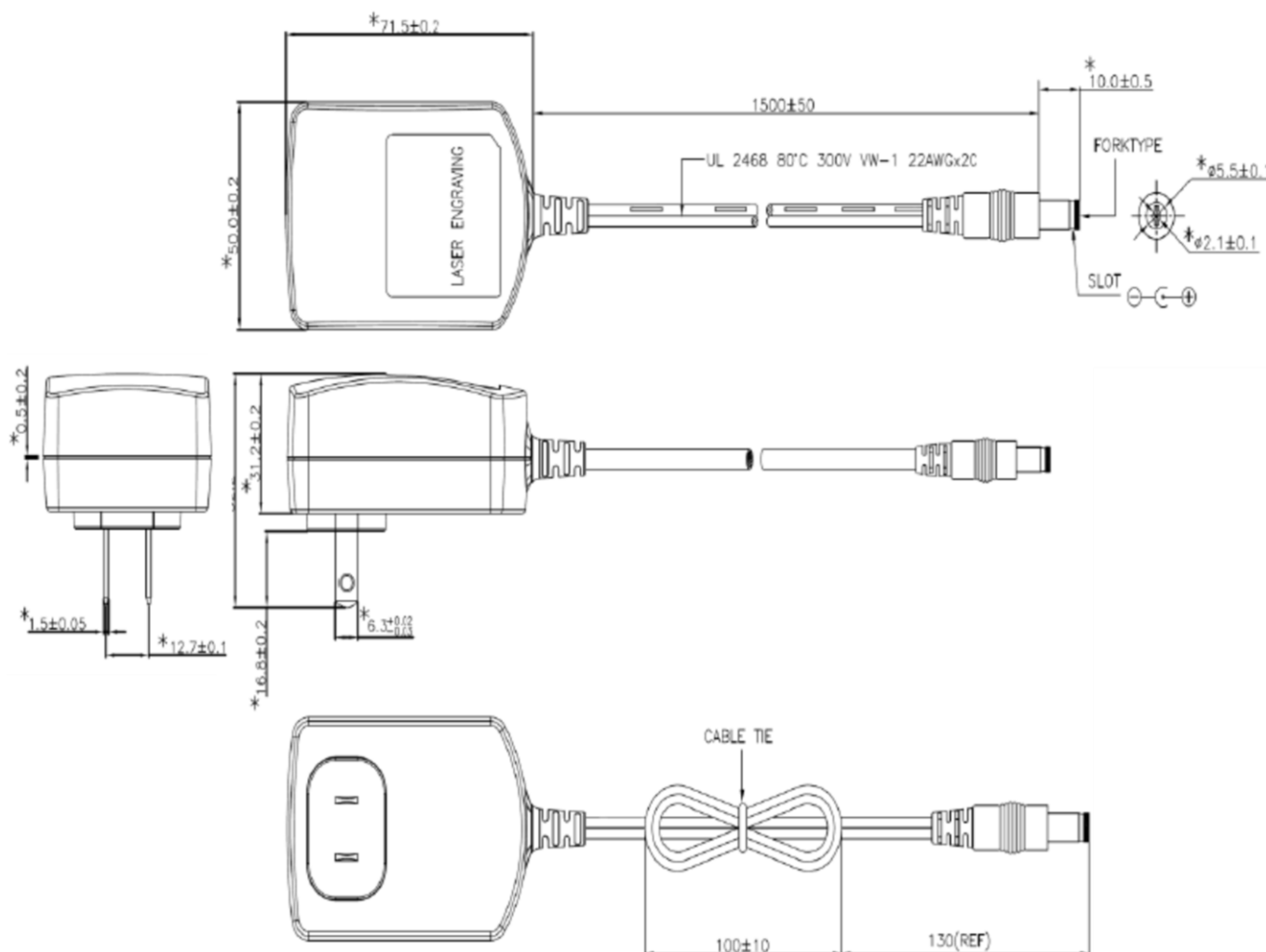
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Dimensions: mm



Model Selections

| Model Number | Output Current (A ±5%) | Output Voltage (Vdc) | Max. Output Power (W) |
|---------------|------------------------|----------------------|-----------------------|
| PSAC12A-120-R | 1.0 | 12 | 12 |
| PSAC12A-150-R | 0.8 | 15 | 12 |
| PSAC12A-240-R | 0.5 | 24 | 12 |
| PSAC12A-480-R | 0.25 | 48 | 12 |

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