

SERIES: SWH24-E | **DESCRIPTION:** AC-DC POWER SUPPLY

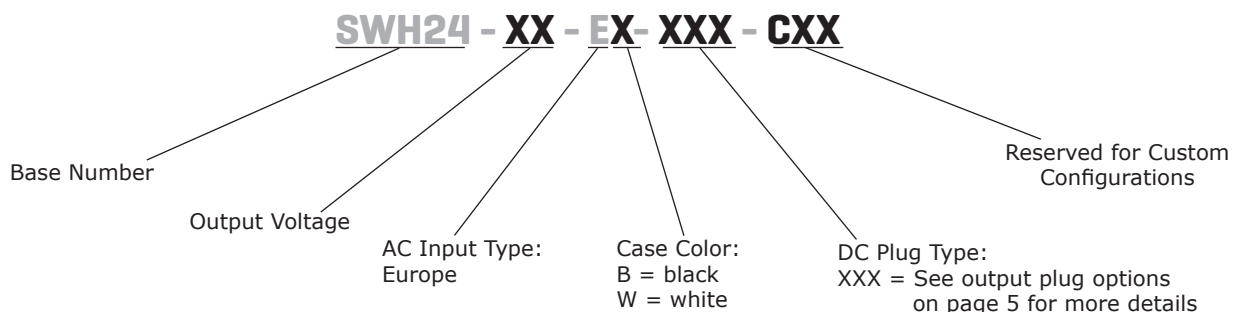
FEATURES

- household appliance applications
- UL 61558 certified
- IEC 61558 & EN 60335 compliant
- standard in black or white
- universal input voltage range
- European Union fixed blade
- custom designs available
- over current and short circuit protections


MODEL

| MODEL | input voltage | input frequency | output voltage | output current | output power | ripple and noise ¹ | efficiency level | | no load power consumption |
|------------|---------------|-----------------|----------------|----------------|--------------|-------------------------------|--------------------------|---------|---------------------------|
| | range (Vac) | range (Hz) | nom (Vdc) | max (A) | max (W) | max (mVp-p) | average ² (%) | 10% (%) | max (W) |
| SWH24-8-E | 90 ~ 264 | 47 ~ 63 | 8 | 2.5 | 20.0 | 240 | 85.47 | 70.0 | 0.1 |
| SWH24-9-E | 90 ~ 264 | 47 ~ 63 | 9 | 2.2 | 19.8 | 240 | 85.4 | 65.0 | 0.1 |
| SWH24-11-E | 90 ~ 264 | 47 ~ 63 | 11 | 2.2 | 24.2 | 240 | 86.24 | 70.0 | 0.1 |
| SWH24-12-E | 90 ~ 264 | 47 ~ 63 | 12 | 2.0 | 24.0 | 240 | 86.2 | 65.0 | 0.1 |
| SWH24-15-E | 90 ~ 264 | 47 ~ 63 | 15 | 1.5 | 22.5 | 240 | 85.96 | 70.0 | 0.1 |
| SWH24-18-E | 90 ~ 264 | 47 ~ 63 | 18 | 1.25 | 22.5 | 240 | 85.96 | 70.0 | 0.1 |
| SWH24-19-E | 90 ~ 264 | 47 ~ 63 | 19 | 1.25 | 27.75 | 240 | 86.17 | 70.0 | 0.1 |
| SWH24-24-E | 90 ~ 264 | 47 ~ 63 | 24 | 1.0 | 24.0 | 240 | 86.2 | 65.0 | 0.1 |
| SWH24-28-E | 90 ~ 264 | 47 ~ 63 | 28 | 0.85 | 23.8 | 240 | 86.17 | 70.0 | 0.1 |
| SWH24-36-E | 90 ~ 264 | 47 ~ 63 | 36 | 0.65 | 23.4 | 240 | 86.11 | 70.0 | 0.1 |
| SWH24-40-E | 90 ~ 264 | 47 ~ 63 | 40 | 0.6 | 24.0 | 240 | 86.2 | 70.0 | 0.1 |

Notes: 1. At fu0ll load, nominal AC input voltage, 25°C, 20 MHz bandwidth oscilloscope, output terminated with 0.1 µF and 10 µF capacitors to ground.
 2. Average efficiency is measured at 25%, 50%, 75%, and 100% load at 115 Vac & 230 Vac input.

PART NUMBER KEY


INPUT

| parameter | conditions/description | min | typ | max | units |
|---------------------------|------------------------|-----|-----|------|-------|
| voltage | | 90 | | 264 | Vac |
| frequency | | 47 | | 63 | Hz |
| current | at full load | | | 0.8 | A |
| leakage current | at 240 Vac, 50 Hz | | | 0.25 | mA |
| no load power consumption | | | | 0.1 | W |

OUTPUT

| parameter | conditions/description | min | typ | max | units |
|-----------------|-------------------------------|-----|-----|-----|-------|
| line regulation | | | ±1 | | % |
| load regulation | | | ±5 | | % |
| start-up time | at 100 and 240 Vac, full load | | | 3 | s |
| hold-up time | at 115 Vac/60 Hz | 1 | | | ms |
| | at 230 Vac/50 Hz | 3 | | | ms |

PROTECTIONS

| parameter | conditions/description | min | typ | max | units |
|--------------------------|------------------------|-----|-----|-----|-------|
| over current protection | auto recovery, hiccup | | | | |
| short circuit protection | auto recovery | | | | |

SAFETY & COMPLIANCE

| parameter | conditions/description | min | typ | max | units |
|-------------------|---------------------------------------|--------|-------|-----|-------|
| isolation voltage | input to output at 10 mA for 1 minute | | 3,000 | | Vac |
| safety approvals | EN 60335, EN 61558, EN 60335-2-29, CE | | | | |
| EMI/EMC | EN 55014-1, EN 55014-2 | | | | |
| MTBF | at full load, 25°C | 50,000 | | | hours |
| RoHS | yes | | | | |

ENVIRONMENTAL

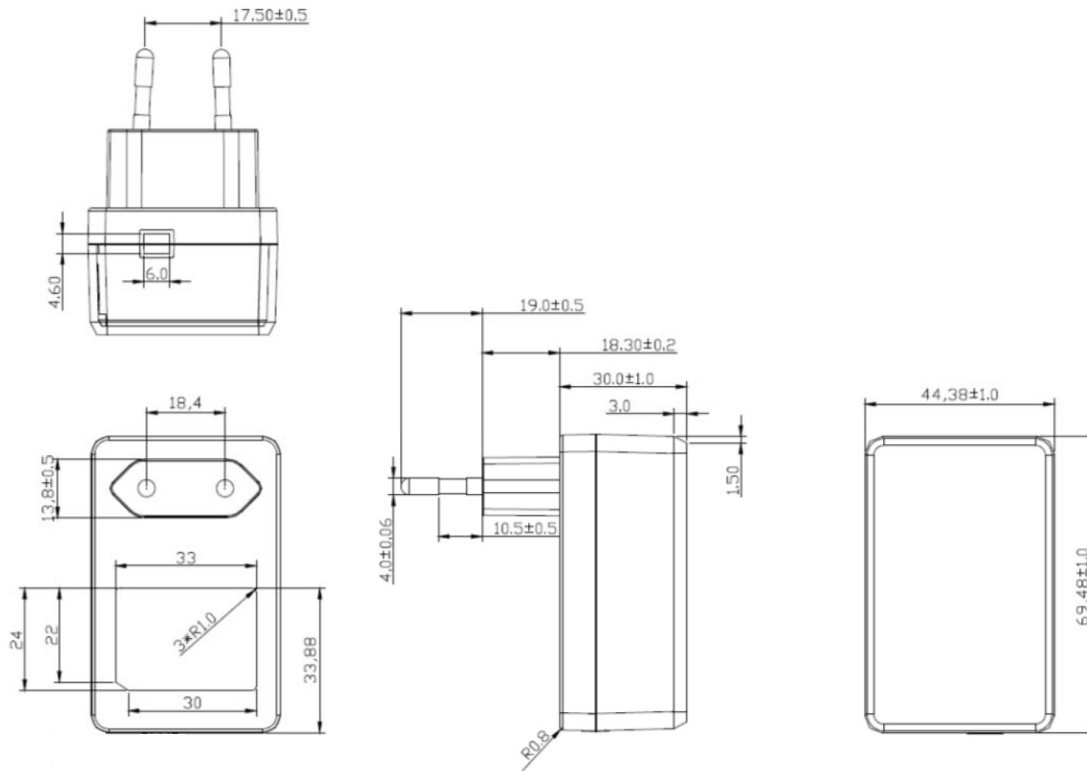
| parameter | conditions/description | min | typ | max | units |
|-----------------------|------------------------|-----|-----|-----|-------|
| operating temperature | | 0 | | 40 | °C |
| storage temperature | | -20 | | 70 | °C |
| operating humidity | | 10 | | 95 | % |
| storage humidity | | 5 | | 95 | % |

MECHANICAL

| parameter | conditions/description | min | typ | max | units |
|------------|------------------------|-----|-----|-----|-------|
| dimensions | 69.48 x 44.38 x 48.3 | | | | mm |
| inlet plug | Europe, 2 pin | | | | |
| weight | | | 80 | | g |

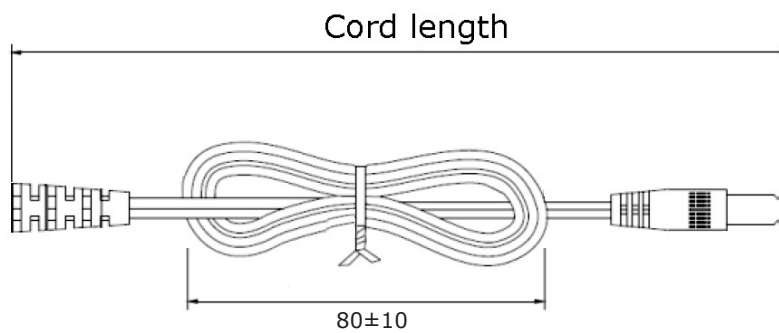
MECHANICAL DRAWING

units: mm



DC CORD

units: mm

**Table 1**

| MODEL NO. | CABLE | CORD LENGTH |
|------------|----------------|--------------------|
| SWH24-8-E | UL2468, 20 AWG | 1,830 mm \pm 100 |
| SWH24-9-E | UL2468, 20 AWG | 1,830 mm \pm 100 |
| SWH24-11-E | UL2468, 20 AWG | 1,830 mm \pm 100 |
| SWH24-12-E | UL2468, 20 AWG | 1,830 mm \pm 100 |
| SWH24-15-E | UL2468, 20 AWG | 1,830 mm \pm 100 |
| SWH24-18-E | UL2468, 20 AWG | 1,830 mm \pm 100 |
| SWH24-19-E | UL2468, 20 AWG | 1,830 mm \pm 100 |
| SWH24-24-E | UL2468, 20 AWG | 1,830 mm \pm 100 |
| SWH24-28-E | UL2468, 20 AWG | 1,830 mm \pm 100 |
| SWH24-36-E | UL2468, 20 AWG | 1,830 mm \pm 100 |
| SWH24-40-E | UL2468, 20 AWG | 1,830 mm \pm 100 |

DC PLUG TYPE PART NUMBER KEY

XXX

Plug Polarity:
 P = Center Positive

 N = Center Negative

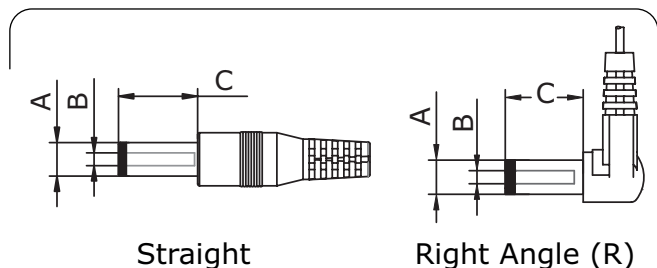
Plug Code:
 X = Choose a code from the options below

Plug Angle:
 "blank" = Straight
 R = Right Angle

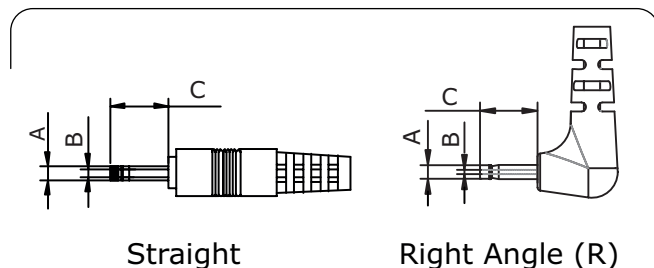
| Plug Polarity | | Code | | Dimensions (mm) | | | Plug Angle | |
|---------------|-------------|--------|----------------------|------------------|------|-----|------------|-------|
| Center Pos. | Center Neg. | Option | Type | A | B | C | Straight | Right |
| • | • | 5 | Standard | 5.5 | 2.1 | 9.5 | • | • |
| • | • | 6 | Standard | 5.5 | 2.5 | 9.5 | • | • |
| • | • | 7 | Standard | 3.5 | 1.35 | 9.5 | • | • |
| • | • | 10 | Locking ² | 5.5 | 2.1 | 9.5 | • | N/A |
| • | • | 11 | Locking ² | 5.5 | 2.5 | 9.5 | • | N/A |
| • | • | 12 | EIAJ-1 | 2.35 | 0.7 | 9.5 | • | • |
| • | • | 13 | EIAJ-2 | 4.0 | 1.7 | 9.5 | • | • |
| • | • | 14 | EIAJ-3 | 4.75 | 1.7 | 9.5 | • | • |
| N/A | N/A | ST | Stripped and Tinned | | | | • | N/A |
| N/A | N/A | CUB | USB | USB Type C | | | • | N/A |
| N/A | N/A | MUB | USB | Micro USB Type B | | | • | N/A |

Note: 1. Contact CUI for additional plug options.
 2. Maximum insertion depth is 10mm.

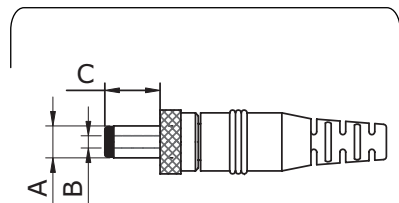
Standard



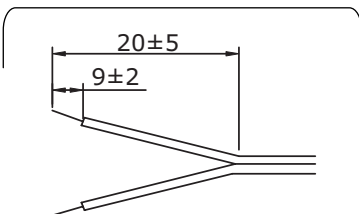
EIAJ



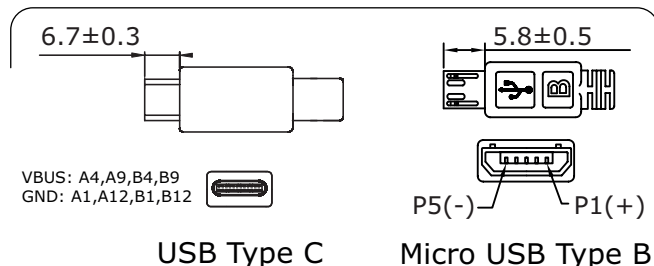
Locking



Stripped & Tinned



USB



REVISION HISTORY

| rev. | description | date |
|------|---|------------|
| 1.0 | initial release | 12/19/2022 |
| 1.01 | stripped and tinned option added to dc plug types | 01/18/2023 |
| 1.02 | dc cord updated | 02/03/2023 |

The revision history provided is for informational purposes only and is believed to be accurate.



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a bel group

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This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and
- (2) this device must accept any interference received, including interference that may cause undesired operation.

CUI offers a one (1) year limited warranty. Complete warranty information is listed on our website.

CUI reserves the right to make changes to the product at any time without notice. Information provided by CUI is believed to be accurate and reliable. However, no responsibility is assumed by CUI for its use, nor for any infringements of patents or other rights of third parties which may result from its use.

CUI products are not authorized or warranted for use as critical components in equipment that requires an extremely high level of reliability. A critical component is any component of a life support device or system whose failure to perform can be reasonably expected to cause the failure of the life support device or system, or to affect its safety or effectiveness.

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