

SERIES: SMM30 | **DESCRIPTION:** AC-DC POWER SUPPLY

FEATURES

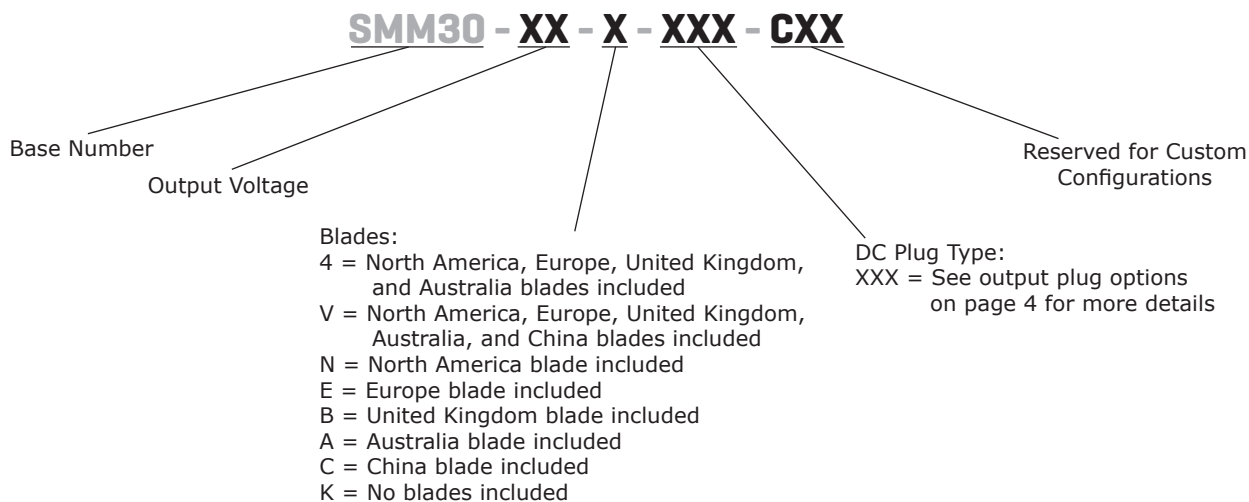
- up to 36 W continuous power
- meets DoE Level VI efficiency
- universal input (90~264 Vac)
- interchangeable blades
- UL/cUL 60601-1, TUV, FCC/CE, PSE safety approvals
- custom designs available



| MODEL | output voltage | output current max | output power max | ripple and noise ¹ max | efficiency level |
|----------|----------------|--------------------|------------------|-----------------------------------|------------------|
| | (Vdc) | (A) | (W) | (mVp-p) | |
| SMM30-5 | 5 | 4 | 20 | 100 | VI |
| SMM30-6 | 6 | 4 | 24 | 120 | VI |
| SMM30-9 | 9 | 3 | 27 | 180 | VI |
| SMM30-12 | 12 | 3 | 36 | 240 | VI |
| SMM30-15 | 15 | 2 | 30 | 225 | VI |
| SMM30-18 | 18 | 1.66 | 30 | 270 | VI |
| SMM30-24 | 24 | 1.5 | 36 | 240 | VI |
| SMM30-36 | 36 | 0.83 | 30 | 360 | VI |
| SMM30-48 | 48 | 0.62 | 30 | 480 | VI |

Notes: 1. At full load, 100~240 Vac input, 20 MHz bandwidth oscilloscope, output terminated with a 0.1 µF ceramic and a 47 µF electrolytic capacitor.

PART NUMBER KEY



INPUT

| parameter | conditions/description | min | typ | max | units |
|---------------------------|--|-----|-----|----------|--------|
| voltage | | 90 | | 264 | Vac |
| frequency | | 47 | | 63 | Hz |
| current | at 115 Vac, full load at 230 Vac, full load | | | 1 0.5 | A A |
| inrush current | at 115 Vac, cold start, full load at 230 Vac, cold start, full load | | | 30 60 | A A |
| leakage current | 240 Vac/50Hz | | | 100 | uA |
| no load power consumption | at 115/230 Vac, 60/50 Hz | | | 0.1 | W |

OUTPUT

| parameter | conditions/description | min | typ | max | units |
|-----------------|--|-----|-----|-----|-------|
| line regulation | at full load | | | ±1 | % |
| load regulation | | | | ±5 | % |
| start-up time | at 220 Vac, output voltage rise to 90% of rated output voltage | | | 3 | s |
| rise time | at rated input, full load, from 10% to 90% of rated output voltage | | | 50 | ms |
| hold-up time | at nominal input, full load | 8.3 | | | ms |

PROTECTIONS

| parameter | conditions/description | min | typ | max | units |
|--------------------------|--|-----|-----|-----|-------|
| over voltage protection | 5V model: output clamped with zener diode | | | 200 | % |
| | 12V model: output clamped with zener diode | | | 150 | % |
| | 15V model: output clamped with zener diode | | | 150 | % |
| | 18V model: output clamped with zener diode | | | 150 | % |
| | 24V model: output clamped with zener diode | | | 150 | % |
| | 36V model: output clamped with zener diode | | | 150 | % |
| | 48V model: output clamped with zener diode | | | 150 | % |
| short circuit protection | continuous, auto recovery | | | | |

SAFETY & COMPLIANCE

| parameter | conditions/description | min | typ | max | units |
|-----------------------|--|---------|-------|-----|-------|
| isolation voltage | input to output | | 4,000 | | Vac |
| insulation resistance | input to output at 500 Vdc for 2 seconds | 100 | | | MΩ |
| safety approvals | Medical: UL/cUL 60601-1, TUV, CB, CE, FCC, PSE | | | | |
| EMI/EMC | FCC Part 15 Class B, CE | | | | |
| MTBF | as per MIL-HDBK-217F at 25°C | 100,000 | | | hours |
| RoHS | yes | | | | |

ENVIRONMENTAL

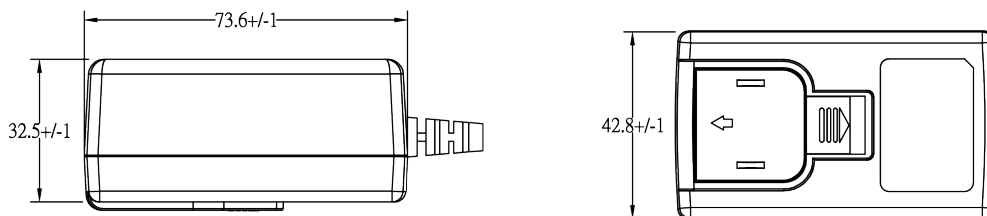
| parameter | conditions/description | min | typ | max | units |
|-----------------------|------------------------|-----|-----|-------|-------|
| operating temperature | | 0 | | 40 | °C |
| storage temperature | | -20 | | 85 | °C |
| operating humidity | non-condensing | 10 | | 90 | % |
| storage humidity | non-condensing | 5 | | 90 | % |
| altitude | | | | 5,000 | m |

MECHANICAL

| parameter | conditions/description | min | typ | max | units |
|------------|--|-----|-----|-----|-------|
| dimensions | 73.6 x 42.8 x 32.5 | | | | mm |
| inlet plug | interchangeable blades (North America, Europe, UK, Australia, China) | | | | |
| weight | | | 200 | | g |

MECHANICAL DRAWING

units: mm
tolerance: ±1 mm



| INTERCHANGEABLE BLADES | | | | | |
|------------------------|---------------|----------|----------|-----------|----------|
| BLADE DESIGNATOR | N | E | B | A | C |
| REGION | North America | Europe | UK | Australia | China |
| BLADE ACCESSORY | SMI-US-5 | SMI-EU-5 | SMI-UK-5 | SMI-AU-5 | SMI-CN-5 |
| BLADE | | | | | |

DC CORD

units: mm

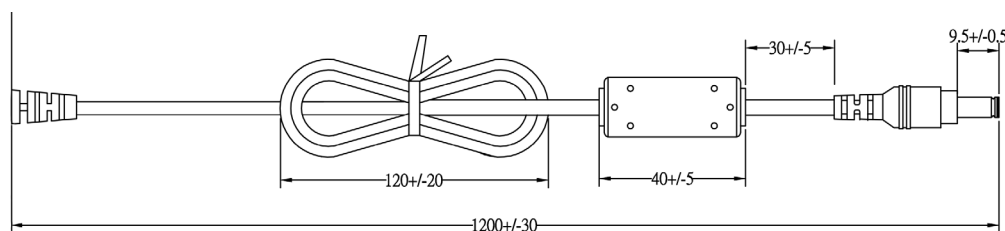




Table 1

| MODEL NO. | CABLE | CORD LENGTH |
|-----------|-----------------|--------------|
| SMM30-5 | UL 1185, 16 AWG | 1,200 mm ±30 |
| SMM30-12 | UL 1185, 18 AWG | 1,200 mm ±30 |
| SMM30-15 | UL 1185, 18 AWG | 1,200 mm ±30 |
| SMM30-18 | UL 1185, 18 AWG | 1,200 mm ±30 |
| SMM30-24 | UL 1185, 18 AWG | 1,200 mm ±30 |
| SMM30-36 | UL 1185, 18 AWG | 1,200 mm ±30 |
| SMM30-48 | UL 1185, 18 AWG | 1,200 mm ±30 |

DC PLUG TYPE PART NUMBER KEY

XXX

Plug Polarity:
P = Center Positive

N = Center Negative


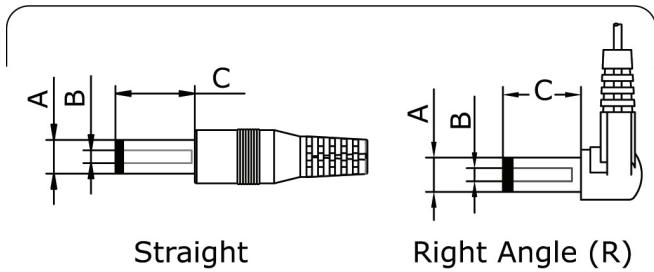
Plug Code:
X = Choose a code from the options below

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

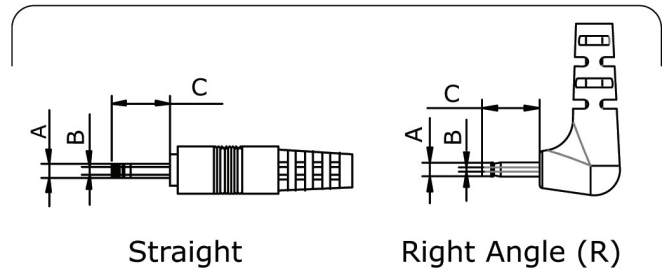
| Plug Polarity | | Code | | Dimensions (mm) | | | Plug Angle | |
|---------------|-------------|--------|----------|-----------------|------|-----|------------|-------|
| Center Pos. | Center Neg. | Option | Type | A | B | C | Straight | Right |
| • | • | 5 | Standard | 5.5 | 2.1 | 9.5 | • | • |
| • | • | 6 | Standard | 5.5 | 2.5 | 9.5 | • | • |
| • | • | 7 | Standard | 3.5 | 1.35 | 9.5 | • | • |
| • | • | 10 | Locking | 5.5 | 2.1 | 9.5 | • | N/A |
| • | • | 11 | Locking | 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 | • | • |

Note: 1. Contact CUI for additional plug options

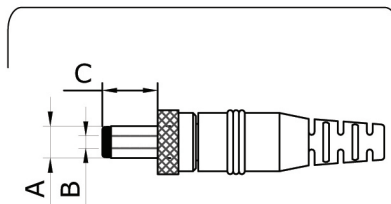
Standard



EIAJ



Locking



REVISION HISTORY

| rev. | description | date |
|------|-----------------|------------|
| 1.0 | initial release | 02/18/2020 |
| 1.01 | dc plug updated | 07/30/2020 |

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



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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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[RLMDT701800](#) [WSU120-2000-R13](#) [WSU180-1330-13](#) [AC-DC ADAPTER 160W](#) [WSU120-2000-13](#) [WSU150-0800-13](#) [WSU075-3200-13](#)
[WSU060-2000-R13](#) [WSU090-2500-13](#) [WSU050-2000-R13](#) [WSU240-1000-13](#) [WSU240-0500-R13](#) [WSU075-1500-13](#) [WSU050-3000-13](#)
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[WSU075-1500-R13](#) [WSU090-1300-13](#) [WSU180-1330-R13](#) [BB-SMI1812VP230C1](#) [WSU050-1500-13](#) [WSU090-0800-13](#) [WSU120-0700-13](#)
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