



SERIES: SDM36-U | **DESCRIPTION:** AC-DC POWER SUPPLY

FEATURES

- up to 36 W continuous power
- meets DoE Level VI efficiency
- universal input voltage range
- compact size
- no load power consumption < 0.10 W
- over voltage and short circuit protections
- UL/cUL, TUV, and PSE safety approvals
- LED indicator
- custom designs available



| MODEL | output voltage | output current max | output power max | ripple and noise ¹ max | efficiency level |
|-------------|----------------|--------------------|------------------|-----------------------------------|------------------|
| | (Vdc) | (A) | (W) | (mVp-p) | |
| SDM36-5-U | 5 | 5 | 25 | 80 | VI |
| SDM36-7.5-U | 7.5 | 4 | 30 | 80 | VI |
| SDM36-9-U | 9 | 4 | 36 | 90 | VI |
| SDM36-12-U | 12 | 3 | 36 | 120 | VI |
| SDM36-15-U | 15 | 2.4 | 36 | 150 | VI |
| SDM36-18-U | 18 | 2 | 36 | 180 | VI |
| SDM36-24-U | 24 | 1.5 | 36 | 240 | VI |

Notes: 1. At full load, nominal input, 20 MHz bandwidth oscilloscope, output terminated with 0.1 µF multilayer ceramic and 10 µF low ESR electrolytic capacitors.

PART NUMBER KEY



INPUT

| parameter | conditions/description | min | typ | max | units |
|---------------------------|---|-----|-----|------|-------|
| voltage | | 90 | | 264 | Vac |
| frequency | | 47 | | 63 | Hz |
| current | | | | 1 | A |
| inrush current | at 230 Vac, full load, 25°C, cold start | | | 70 | A |
| leakage current | | | | 0.3 | mA |
| no load power consumption | at 230 Vac | | | 0.10 | W |

OUTPUT

| parameter | conditions/description | min | typ | max | units |
|------------|---------------------------------|-----|----------|-----|--------|
| regulation | 5 Vdc model all other models | | ±6 ±5 | | % % |

PROTECTIONS

| parameter | conditions/description | min | typ | max | units |
|--------------------------|---------------------------------|-----|-----|-----|-------|
| over voltage protection | output shut down | | | 200 | % |
| over current protection | output shut down, auto recovery | | | 200 | % |
| short circuit protection | output shut down, auto recovery | | | | |

SAFETY & COMPLIANCE

| parameter | conditions/description | min | typ | max | units |
|----------------------|--|----------|----------------|-----|------------|
| isolation voltage | input to output at 10 mA for 1 minute input to frame ground at 10 mA for 1 minute | | 4,000 2,000 | | Vac Vac |
| isolation resistance | input to output at 500 Vdc input to frame ground at 500 Vdc | 10 10 | | | MΩ MΩ |
| safety approvals | Medical: UL/cUL, TUV ITE: PSE | | | | |
| EMI/EMC | FCC Part 15B Class B, CE | | | | |
| MTBF | as per Telcordia SR-332, 25°C | 300,000 | | | hours |
| RoHS | 2011/65/EU | | | | |

ENVIRONMENTAL

| parameter | conditions/description | min | typ | max | units |
|-----------------------|------------------------|-----|-----|-----|-------|
| operating temperature | | 0 | | 40 | °C |
| storage temperature | | -20 | | 80 | °C |
| operating humidity | non-condensing | 20 | | 80 | % |
| storage humidity | non-condensing | 10 | | 90 | % |

MECHANICAL

| parameter | conditions/description | min | typ | max | units |
|------------|------------------------|-----|-----|-----|-------|
| dimensions | 100 x 50 x 33 | | | | mm |
| inlet plug | IEC320/C14 | | | | |
| weight | without ac cord | | 170 | | g |

MECHANICAL DRAWING

units: mm
tolerance: ±1.0 mm



DC CORD

units: mm



Table 1

| MODEL NO. | CABLE | CORD LENGTH |
|-------------|----------------|--------------|
| SDM36-5-U | UL2468, 16 AWG | 1,500 mm ±30 |
| SDM36-7.5-U | UL2468, 18 AWG | 1,500 mm ±30 |
| SDM36-9-U | UL2468, 18 AWG | 1,500 mm ±30 |
| SDM36-12-U | UL2468, 18 AWG | 1,500 mm ±30 |
| SDM36-15-U | UL2468, 18 AWG | 1,500 mm ±30 |
| SDM36-18-U | UL2468, 20 AWG | 1,500 mm ±30 |
| SDM36-24-U | UL2468, 20 AWG | 1,500 mm ±30 |

AC CORDS

units: mm

NORTH AMERICA (STANDARD)



NORTH AMERICA (MEDICAL)




EUROPE



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 | • | • |
| • | • | 8 | Standard | 3.8 | 1.35 | 9.5 | • | • |
| • | • | 9 | Standard | 3.8 | 1.05 | 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 | • | • |
| N/A | N/A | ST | Stripped & Tinned | | | | N/A | N/A |
| N/A | N/A | MUB | USB | Micro USB Type B | | | • | N/A |

Note: 1. Contact CUI for additional plug options

Standard



EIAJ



Locking



Stripped & Tinned



USB



REVISION HISTORY

| rev. | description | date |
|------|-----------------|------------|
| 1.0 | initial release | 01/29/2018 |

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



CUI INC[®]

Headquarters
20050 SW 112th Ave.
Tualatin, OR 97062
800.275.4899

Fax 503.612.2383
cui.com
techsupport@cui.com

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.

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Наши контакты:

Телефон: +7 812 627 14 35

Электронная почта: sales@st-electron.ru

Адрес: 198099, Санкт-Петербург,
Промышленная ул, дом № 19, литера Н,
помещение 100-Н Офис 331