# CPS Series

## 18 W AC/DC Switching Power Supply Desk top

CoolPower Solutions

- IEC/EN/UL 62368-1 3rd Edition
- Universal Input Range 100-240VAC
- IEC-320-C8 Input Inlet
- Regulated 18W Output with Low Ripple Noise
- Over Voltage, Over Current and Short Circuit Protection
- Efficiency ErP Stage 2, DoE Level VI, CoC Tier 2
- Safety Agency Requirements and EMI/EMS Certified



### Electrical specifications

| | | |
|---|---|---|
| Input | Voltage | 100-240 VAC |
| | Frequency | 50-60 Hz |
| | Current (Full load) | 480 mA max. |
| | Protection | Internal Primary Current Fuse |
| | Configuration | IEC60320/C8 (C6 and C14 available) |
| Output | Output Power | 18 W |
| | Voltage (VDC) | See table below |
| | Current (A) max. | See table below |
| | Load regulation | ± 5.0% typical |
| | Ripple & Noise | ≤ 2% Vp-p @ Full Load |
| | Transient Response | 0.5 ms with 50% Load Change |
| | Start-up Time | < 3000 ms |
| | Hold-up Time | ≥ 10 ms @ Full Load |
| | Rise Time | < 50 ms |
| | Protection | Short Circuit Protection / Over Voltage Protection / Over Current Protection |
| Electrical | Topology | Switching Flyback |
| | Dielectric Withstand | 3000 VAC Primary - Secondary |
| | Leakage Current | < 0.25mA @ 2Pin / < 5mA @ 3Pin |
| | Efficiency | ErP Stage 2, CoC Tier 2, DoE Level VI |
| | EMC Standards | EN55032<br>EN61000-3-2,3<br>EN55035 |
| | MTBF | 300,000 Calculated Hours at 25ºC, by Telcordia SR-332 |
| Environment | Operating Temperature | -20°C…+40°C (60°C derating 50%) |
| | Storage Temperature | -20°C…+80°C |
| | Operating Altitude | 2000 m |
| | Humidity | Operating: 20…80% RH (No-condensing) |
| | Cooling | Natural Convection Cooling |
| Physical | Dimension (L x W x H) | 88 x 50 x 34 mm (C8), 100 x 50 x 33 mm (C6 & C14) |
| | Weight | 144 g |
| | DC cord | 22AWG / 20AWG / 18AWG, Without Ferrite core (optional) |
| Safety | Safety Approvals | CB / UL / cUL / FCC / GS / CE / UKCA / PSE / BSMI / CCC/ RCM / LPS |

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### Description

**The CPS series of AC/DC switching mode power supplies provide 18 Watts of continuous output power and is well-suited for a variety of applications. All supplies include IEC-320-C8 input for worldwide applications. With safety approvals, DoE Level VI, ErP Stage 2, CoC Tier 2 certified and RoHS compliance. Other output voltages, DC plugs and input connectors available.**

### Models

| Model no | Output voltage | Max output current | Max output power | DC Plug |
|---|---|---|---|---|
| CPS-05030C8/3630+ | 5,0 VDC | 3,0 A | 15,0 W | 2.1/5.5 mm +center |
| CPS-07025C8/3630+ | 7,0 VDC | 2,5 A | 17,5 W | 2.1/5.5 mm +center |
| CPS-07525C8/3630+ | 7,5 VDC | 2,5 A | 18,7 W | 2.1/5.5 mm +center |
| CPS-09022C8/3630+ | 9,0 VDC | 2,2 A | 19,8 W | 2.1/5.5 mm +center |
| CPS-10019C8/3630+ | 10,0 VDC | 1,9 A | 19,0 W | 2.1/5.5 mm +center |
| CPS-11016C8/3630+ | 11,0 VDC | 1,6 A | 17,6 W | 2.1/5.5 mm +center |
| CPS-12016C8/3630+ | 12,0 VDC | 1,6 A | 19,2 W | 2.1/5.5 mm +center |
| CPS-12016C8/3617+ | 12,0 VDC | 1,6 A | 19,2 W | 2.5/5.5 mm +center |
| CPS-15013C8/3630+ | 15,0 VDC | 1,3 A | 19,5 W | 2.1/5.5 mm +center |
| CPS-16012C8/3630+ | 16,0 VDC | 1,2 A | 19,2 W | 2.1/5.5 mm +center |
| CPS-18011C8/3630+ | 18,0 VDC | 1,1 A | 19,8 W | 2.1/5.5 mm +center |
| CPS-24008C8/3630+ | 24,0 VDC | 0,8 A | 19,2 W | 2.1/5.5 mm +center |
| CPS-24008C8/3617+ | 24,0 VDC | 0,8 A | 19,2 W | 2.5/5.5 mm +center |

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