CPS Series

120 W AC/DC Switching Power Supply for I.T.E.

CoolPower Solutions



- IEC/EN/UL 62368-1 3rd Edition
- Universal Input Range 100-240 VAC
- IEC-320-C14 Input Inlet
- Regulated 120 W Output with Low Ripple Noise
- Over Voltage, Over Current and Short Circuit Protection
- Over Temperature Protection
- Efficiency ErP Stage 2, DoE Level VI
- Safety Agency Requirements and EMI/EMS Certified

Electrical specifications

Input	Voltage	100-240 VAC
	Frequency	50-60 Hz
	Current (Full load)	1600 mA max.
	Protection	Internal Primary Current Fuse
	Configuration	IEC60320 C14, (C6 available)
Output	Output Power	120 W
	Voltage (VDC)	See table below
	Current (A) max.	See table below
	Load regulation	± 5.0% typical
	Ripple & Noise	≤ 1% Vp-p @ Full Load
	Transient Response	0.5 ms with 50% Load Change
	Start-up Time	< 3000 ms
	Hold-up Time	≥ 10mS @ Full Load
	Rise Time	< 50 ms
	Protection	Short Circuit / Over Voltage / Over Current / Over Temperature Protections
Electrical	Topology	LLC
	Dielectric Withstand	3000 VAC Primary - Secondary
	Earth Leakage Current	< 5 mA
	Efficiency	ErP Stage 2, DoE Level VI
	EMC Standards	EN55032 EN61000-3-2,3 EN55035
	MTBF	300,000 Calculated Hours at 25ºC by Telcordia SR-332
Environment	Operating Temperature	-20°C…+40°C (+60°C derating 60%)
	Storage Temperature	-20°C…+80°C
	Operating Altitude	5000 m
	Humidity	Operating: 20…80% RH (No-condensing)
	Cooling	Natural Convection Cooling
Mechanical	Dimension (L x W x H)	140,5 x 60 x 35 mm
	Weight	390 g
	DC cord	20AWG / 18AWG / 16AWG, Ferrite core
Safety	Safety Approvals	CB / UL / cUL / FCC / GS/ CE / UKCA / PSE / BSMI

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Description

The CPS-120W series of AC/DC switching mode power supplies provide 120 Watts of continuous output power and is well-suited for a variety of applications. All supplies include IEC-320-C14 input for worldwide applications. Other output voltages and DC plugs available.

Models

Model no	Output voltage	Max output current	Max output power	DC Plug
CPS-12090C14/3630+	12 VDC	9,00 A	108 W	2.1/5.5 mm +center
CPS-15080C14/3630+	15 VDC	8,00 A	120 W	2.1/5.5 mm +center
CPS-16075C14/3630+	16 VDC	7,50 A	120 W	2.1/5.5 mm +center
CPS-19063C14/3630+	19 VDC	6,30 A	120 W	2.1/5.5 mm +center
CPS-24050C14/3630+	24 VDC	5,00 A	120 W	2.1/5.5 mm +center
CPS-48025C14/3630+	48 VDC	2,50 A	120 W	2.1/5.5 mm +center
CPS-56021C14/3630+	56 VDC	2,14 A	120 W	2.1/5.5 mm +center

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