CPS Series

90 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 90 W Output with Low Ripple Noise
- Over Voltage, Over Current and Short Circuit 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)	1200 mA max.
	Protection	Internal Primary Current Fuse
	Configuration	IEC60320 C14, (C6 available)
Output	Output Power	90 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 Protection / Over Voltage Protection / Over Current Protection
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)	133,5 x 53,5 x 33 mm
	Weight	330 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-90W series of AC/DC switching mode power supplies provide 90 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-12070C14/3630+	12 VDC	7.50 A	90 W	2.1/5.5 mm +center
CPS-15060C14/3630+	15 VDC	6.00 A	90 W	2.1/5.5 mm +center
CPS-16056C14/3630+	16 VDC	5,63 A	90 W	2.1/5.5 mm +center
CPS-18050C14/3630+	18 VDC	5,00 A	90 W	2.1/5.5 mm +center
CPS-19047C14/3630+	19 VDC	4,74 A	90 W	2.1/5.5 mm +center
CPS-24037C14/3630+	24 VDC	3.75 A	90 W	2.1/5.5 mm +center
CPS-48019C14/3630+	48 VDC	1,88 A	90 W	2.1/5.5 mm +center
CPS-56016C14/3630+	56 VDC	1,60 A	90 W	2.1/5.5 mm +center

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