CPS Series

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

CoolPower Solutions

- IEC/EN/UL 62368-1 3rd Edition
- Universal Input Range 90-264VAC
- IEC-320-C8 Input Inlet
- Regulated 36 W 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)	1000 mA max.
	Protection	Internal Primary Current Fuse
	Configuration	IEC60320/C8 (C14 available)
Output	Output Power	36 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	0.5ms with 50% Load Change
	Start-up Time	< 3000 ms
	Hold-up Time	≥ 10 ms at Full Load
	Rise Time	< 50 ms
	Protection	Short Circuit Protection / Over Voltage Protection / Over Current Protection
Electrical	Topology	Switching Flyback
	Dielectric Withstand	3000VAC Primary - Secondary
	Leakage Current	< 0.25mA @ 2Pin / < 5mA @ 3Pin
	Efficiency	ErP Stage 2, DoE Level VI, CoC Tier 2
	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 50%)
	Storage Temperature	-20°C…+80°C
	Operating Altitude	2000 m
	Relative Humidity	Operating: 20…80% RH (No-condensing)
	Cooling Method	Natural Convection Cooling
Mechanical	Dimension (L x W x H)	99 x 50 x 33 mm (C8), 100 x 50 x 33 mm (C14)
	Weight	210 g
	DC cord	22AWG / 20AWG / 18AWG / 16AWG, Ferrite core optionally
Safety	Safety Approvals	CB / UL / cUL / FCC / GS / CE / PSE / BSMI / CCC/ RCM / LPS

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Description

The CPS-36W series of AC/DC switching mode power supplies provide 36 Watts of continuous output power and is well-suited for a variety of applications. All supplies include IEC-320-C8 input for worldwide applications. Other output voltages, DC plugs and input connectors available.

Models

Model no	Output voltage	Max output current	Max output power	DC Plug
CPS-12030C8/3630+	12 VDC	3.0 A	36 W	2.1/5.5 mm +center
CPS-12030C8/3617+	12 VDC	3.0 A	36 W	2.5/5.5 mm +center
CPS-24015C8/3630+	24 VDC	1.5 A	36 W	2.1/5.5 mm +center
CPS-24015C8/3617+	24 VDC	1.5 A	36 W	2.5/5.5 mm +center
CPS-05050C14/3630+	5,0 VDC	5,0 A	25 W	2.1/5.5 mm +center

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