CPS Series

24 W AC/DC Plug-in Switching Power Supply with Changeable AC Plug

CoolPower Solutions

- IEC/EN/UL 62368-1 3rd Edition
- Universal Input Range 100-240VAC
- Changeable AC Plug
- Single Regulated 24W Output with Low Ripple Noise
- Over Voltage, Over Current and Short Circuit Protection
- Efficiency ErP Stage 2, DoE Level VI and CoC Tier 2
- Safety Agency Requirements and EMI/EMS Certified



Electrical specifications

Input	Voltage	100-240 VAC
	Frequency	50-60 Hz
	Current (Full load)	580 mA max.
	Protection	Internal Primary Current Fuse
	Configuration	Changeable AC Plug; EU, UK, US/JP, AU, CN
Output	Output Power	24 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	< 3 000 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	3 000 VAC Primary - Secondary
	Leakage Current	< 0,25 mA
	Efficiency	ErP Stage 2, DoE Level VI, CoC Tier 2
	EMC Standards	EN55032
		EN61000-3-2,3
		EN55035
	MTBF	300 000 h Calculated Hours at 25°C by Telcordia SR-332
Environment	Operating Temperature	-20°C…+40°C (+60°C with derating 50%)
	Storage Temperature	-20°C…+80°C
	Operating Altitude	2 000 m
	Relative Humidity	Operating: 20…80% RH (No-condensing)
	Cooling	Natural Convection Cooling
Mechanical	Dimension (L x W x H)	75 x 36 x 66 mm (Case)
	Weight	158 g
	DC cord	22AWG / 20AWG / 18AWG / 16AWG, Without Ferrite core (optonal)
Safety	Safety Approvals	EU: CB / CE / GS / LPS UK: CB / UKCA / LPS US: CB / UL / cUL / FCC / PSE / BSMI / LPS AU: CB / RCM / LPS CN: CB / CCC / LPS

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Description

The CPS series of AC/DC switching mode power supplies provide 24 Watts of continuous output power and is well-suited for a variety of applications. Output voltages from 5V to 48V available. AC Prong Changeable. With safety certificate and meet DoE Level VI, ErP Stage 2 & CoC Tier 2 regulations and RoHS compliance. Available AC-plugs: EU, UK, US/JP, AU and CN.

Models

Model no	Output voltage	Max output current	Max output power	DC Plug
CPS-05040X/3630+	5,0 VDC	4,0 A	20,00 W	2.1/5.5 mm +center
CPS-05935X/3630+	5,9 VDC	3,5 A	20,65 W	2.1/5.5 mm +center
CPS-05940X/3630+	5,9 VDC	4,0 A	23,60 W	2.1/5.5 mm +center
CPS-07030X/3630+	7,0 VDC	3,0 A	21,00 W	2.1/5.5 mm +center
CPS-07530X/3630+	7,5 VDC	3,0 A	22,50 W	2.1/5.5 mm +center
CPS-09025X/3630+	9,0 VDC	2,5 A	22,50 W	2.1/5.5 mm +center
CPS-12020X/3630+	12 VDC	2,0 A	24,00 W	2.1/5.5 mm +center
CPS-15016X/3630+	15 VDC	1,6 A	24,00 W	2.1/5.5 mm +center
CPS-24010X/3630+	24 VDC	1,0 A	24,00 W	2.1/5.5 mm +center
CPS-48005X/3630+	48 VDC	0,5 A	24,00 W	2.1/5.5 mm +center
MAINS PLUG CPS EU	Exchangeable EU mains plug			
MAINS PLUG CPS UK	Exchangeable UK mains plug			
MAINS PLUG CPS US	Exchangeable US mains plug			
MAINS PLUG CPS AU	Exchangeable AU mains plug			
MAINS PLUG CPS CN	Exchangeable CN mains plug			

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