AQF240E Series

240 W AC/DC Switching Power Supply

CoolPower Solutions

KEY FEATURES

- Enclosed Switching Power Supply
- Universal Input: 90-264 VAC
- With P.F.C. Function, PF>0.95
- Free Air Convection
- High Efficiency up to 93%
- RoHS Compliant Design
- Ultra Compact Size: 6.0 x 4.18 x 1.38 Inches
- 3-Years Product Warranty



ELECTRICAL SPECIFICATIONS

Model No.		AQF240E-12S	AQF240E-15S	AQF240E-24S	AQF240E-28S	AQF240E-36S	AQF240E-32S	AQF240E-48S
Max Output Wattage (W)		200W	220W	240W				
Input	Voltage	90-264 VAC or 120-370 VDC						
	Frequency (Hz)	47-63 Hz						
	Current (Full load)	<3.0 A max. (115 VAC) / <1.5 A max. (230 VAC)						
	Inrush Current (<2ms)	< 30 A max. (115 VAC) / < 60 A max. (230 VAC)						
	Leakage Current	< 0.5 mA max.						
	Power Factor	PF>0.98 (115 VAC) / PF>0.95 (230 VAC) at Full Load						
Output	Voltage (V.DC.)	12V	15V	24V	28V	36V	32V	48V
	Voltage Accuracy	±2%						
	Current (Convection) (A) max	16.66	14.66	10	8.57	6.66	7.5	5
	Line Regulation	±1%						
	Load Regulation	±1%						
	Minimum Load	1%						
	Maximum Capacitive Load	470-23,000μF depending on model						
	Ripple & Noise (max.)	120mVp-p			200mVp-p			
	Efficiency (typ.)	90%	90%	92%	92%	92%	92%	93%
	Hold-up Time	20 ms min.						
Protection	Over Power Protection	Auto recovery						
	Over Voltage Protection	Latch Off						
	Short Circuit Protection	Latch Off						
Isolation	Input-Output (V.AC)	4000V						
	Input-FG (V.AC)	2000V						
	Output-FG (V.AC)	500V						
Environment	Operating Temperature	-10°C…+70°C (with derating)						
	Storage Temperature	-25°C…+85°C						
	Temperature Coefficient	±0.03%/°C (0~50°C)						
	Humidity	95% RH						
	MTBF	>50,000 h @ 25°C (MIL-HDBK-217F)						
	Vibration	10~500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes.						
Physical	Dimension (L x W x H)	6.0 x 4.18 x 1.38 Inches (150.0 x 106.0 x 35.0 mm) Tolerance ±0.5 mm						
	Weight	610 g						
	Cooling Method	Free convection						
Safety	Agency Approvals	CE, UL60950, CB						
EMC	EMI (Conducted & Radiated Emission)	EN 55022 class B						
	EMS (Noise Immunity)	EN 55024						

1.All specifications valid at normal input voltage, full load and +25°C after warm-up time unless otherwise stated.

2.Ripple & Noise are measured at 20MHz of bandwidth with 0.1UF & 47UF parallel capacitor.

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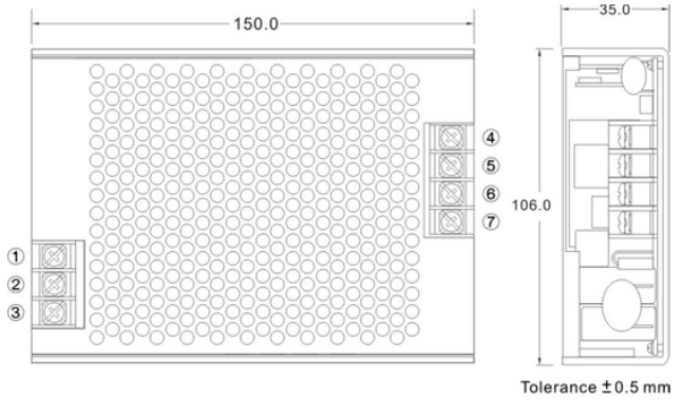
Email: info@cps.fi
Web: www.cps.fi

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MECHANICAL DIMENSION (Top View)



PIN#	Single
1	AC IN (L)
2	AC IN (N)
3	FG
4	+DC OUT
5	+DC OUT
6	-DC OUT
7	-DC OUT

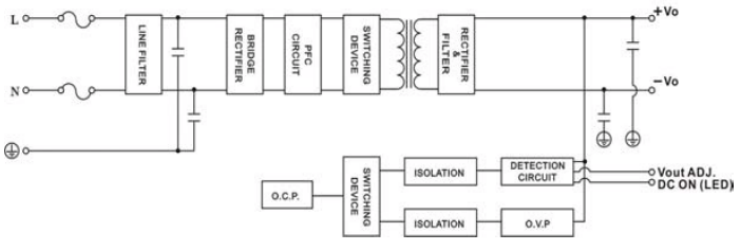
ASSEMBLY INSTRUCTIONS

*U Case T=2.0mm

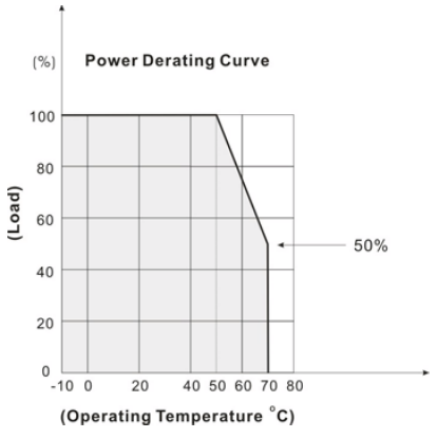
Customer screws into the length of the case no higher than 0.5mm
(Namely screw length for load plate thickness plus 2.5mm

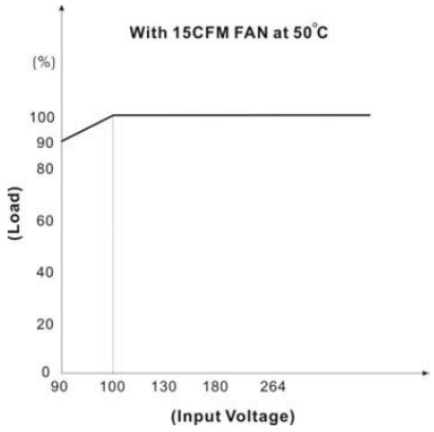
BLOCK DIAGRAM

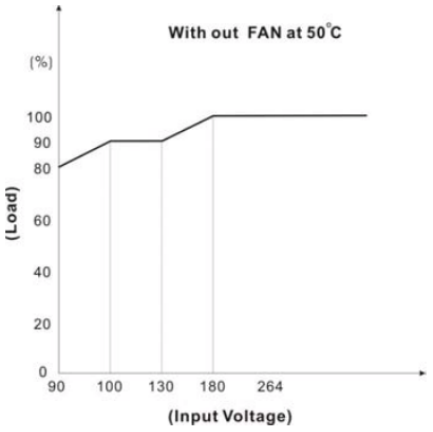
Single Output



DERATING







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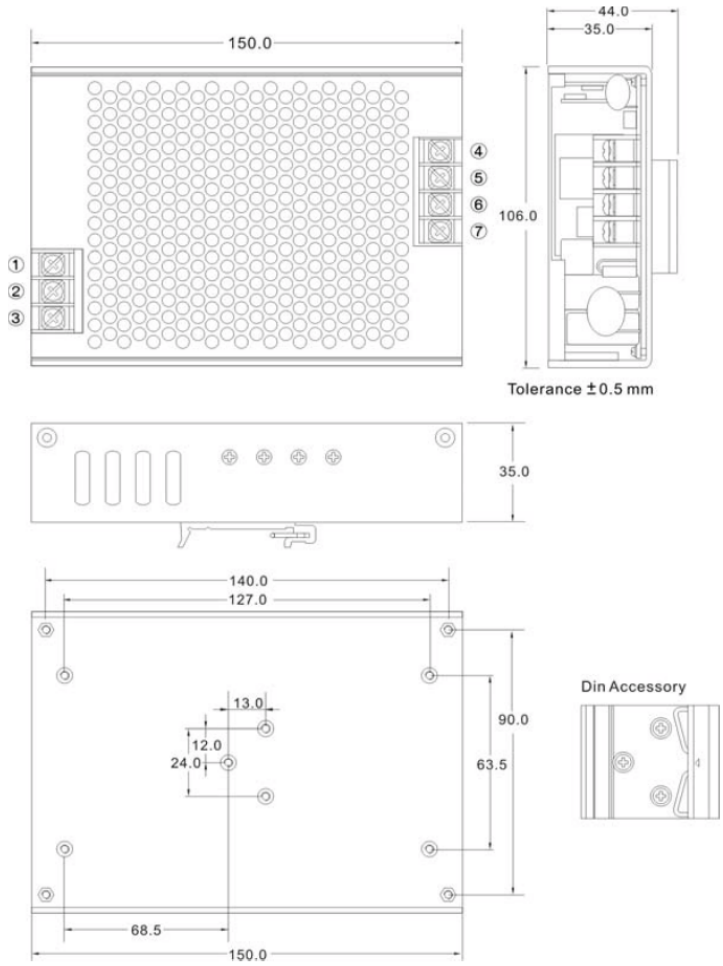
Email: info@cps.fi
Web: www.cps.fi

Din Rail Kit

AQF240E-DRK



PIN#	Single
1	AC IN (L)
2	AC IN (N)
3	FG
4	+DC OUT
5	+DC OUT
6	-DC OUT
7	-DC OUT



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