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TECHNOLOGY GROUP

Your **definitive** source for quality pre-owned equipment.

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Full-service, independent repair center
with experienced engineers and technicians on staff.

We buy your excess, underutilized, and idle equipment
along with credit for buybacks and trade-ins.

Custom engineering
so your equipment works exactly as you specify.

- Critical and expedited services
- In stock / Ready-to-ship
- Leasing / Rentals / Demos
- ITAR-certified secure asset solutions

Expert team | Trust guarantee | 100% satisfaction

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Find the *TDK / Kepco FCP-032K* at our website: *Click HERE*

FCP MODEL TABLE

SPECIFICATION	OUTPUT VOLTAGE		OUTPUT CURRENT	CURRENT LIMIT	RIPPLE (SOURCE & SWITCHING)	NOISE (SPIKE)	EFFICIENCY
Units	Volts		Amps	Amps	mV	mV	Percent
Condition	Factory set (1)	Adjustment range	0-50°C	Setting at 25°C nom input	Nom input max load p-p max	d-c to 50MHz(1) p-p max	Nom input max load typ
3 WATT MODELS							
FCP 031K							
Output #1	+12.1	10.8-13.2	0-0.12	0.14~0.25	80	150	64%
Output #2	-12.1(2)	(3)					
FCP 032K							
Output #1	+15.1	13.5-16.5	0-0.1	0.12~0.2	80	150	64%
Output #2	-15.1(2)	(3)					
10 WATT MODELS							
FCP 101K							
Output #1	+12.1	10.8-13.2	0-0.4	0.45~1.0	80	150	77%
Output #2	-12.1(2)	(3)					
FCP 102K							
Output #1	+15.1	13.5-16.5	0-0.32	0.35~0.9	80	150	77%
Output #2	-15.1(2)	(3)					

(1) Nominal input, maximum load, 25°C.
(2) Output #2 is ±2% of the Output #1 setting.
(3) Output #2 tracks Output #1 setting ±2%.

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FMP, FCP GENERAL SPECIFICATIONS

SPECIFICATION		RATING/DESCRIPTION	CONDITION
Temperature		0-71°C; See Fig. 1	Operating
		-40°C to 85°C	Storage
Humidity		95% RH	Non-condensing, operating & storage
Shock		20g peak, ½ sine pulse, 3 shocks each axis, 11 ±5msec duration	Non-operating
Vibration		5-10Hz: 10mm amplitude 10-55Hz: 2g acceleration, 1 hour each 3 axes	Non-operating
Isolation	Output to case	500V d-c, 100MΩ	25°C, 65% RH
Withstand voltage	Input to output	2KV a-c for 1 minute	25°C, 65% RH
	Input to case	2KV a-c for 1 minute	
Safety		UL 1950 recognized; CSA 1402 certified	
Type of construction		PC card enclosed	
Enclosure		Plastic (UL 94V-1or 94V-0)	
Cooling		Convection	

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FMP, FCP INPUT CHARACTERISTICS

SPECIFICATION	RATING/DESCRIPTION	CONDITION
Voltage range	85-132V a-c, 110-170V d-c (2)	
Brownout voltage	80V a-c/105V d-c (2)	Low operating limit
Current	3W: 0.08A 10W: 0.25A	At 120V a-c
	3W: 0.1A 10W: 0.35A	At 85V a-c
Fuse value	External 125V fuse recommended 3W: 0.63A 10W: 1A	
Initial turn-on surge, first ½-cycle	16A max	120V a-c, rated load; 25°C cold start
Frequency	47-440Hz	Single phase
EMI	Meets conducted noise standard of FCC 20780, Class B	
Leakage current	0.5mA max	At 25°C (UL method)
Start-up time	100msec to reach 90% nom.	Std.(1)
Hold-up time	20msec min	Std.(1)
Circuit type	FMP: flyback FCP: Output #1: flyback Output #2: flyback plus linear post-regulators	
Switching frequency	80~300KHz (depending on load)	

(1) Std. condition = nominal input, maximum load, 25°C.
(2) Safety approval is valid for a-c operation only.

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FMP, FCP OUTPUT CHARACTERISTICS

SPECIFICATION		RATING/DESCRIPTION	CONDITION
Source Effect	typ	0.1%	Minimum to maximum output
	max	0.5%	
Load Effect	typ	0.8%	10% to 100% load
	max	2.0%	
Temperature Effect	typ	1.0%	Nominal input, Nominal load, 0-50°C
	max	3.0%	
Combined Effect (source, load & temp.)	typ	+1.0%	
	max	+3.0%	
Time Effect (drift)		0.5%	0.5-8.5 hr, maximum load, 25°C
Recovery Characteristics	Excursion	<4.0%	Step load change from 50% to 100% of rated load. Nominal input, 25°C
	Recovery within ±1%	<1msec	
Overvoltage Protection		Zener diode	

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OUTLINE DRAWING

DIMENSIONS (HxWxD)

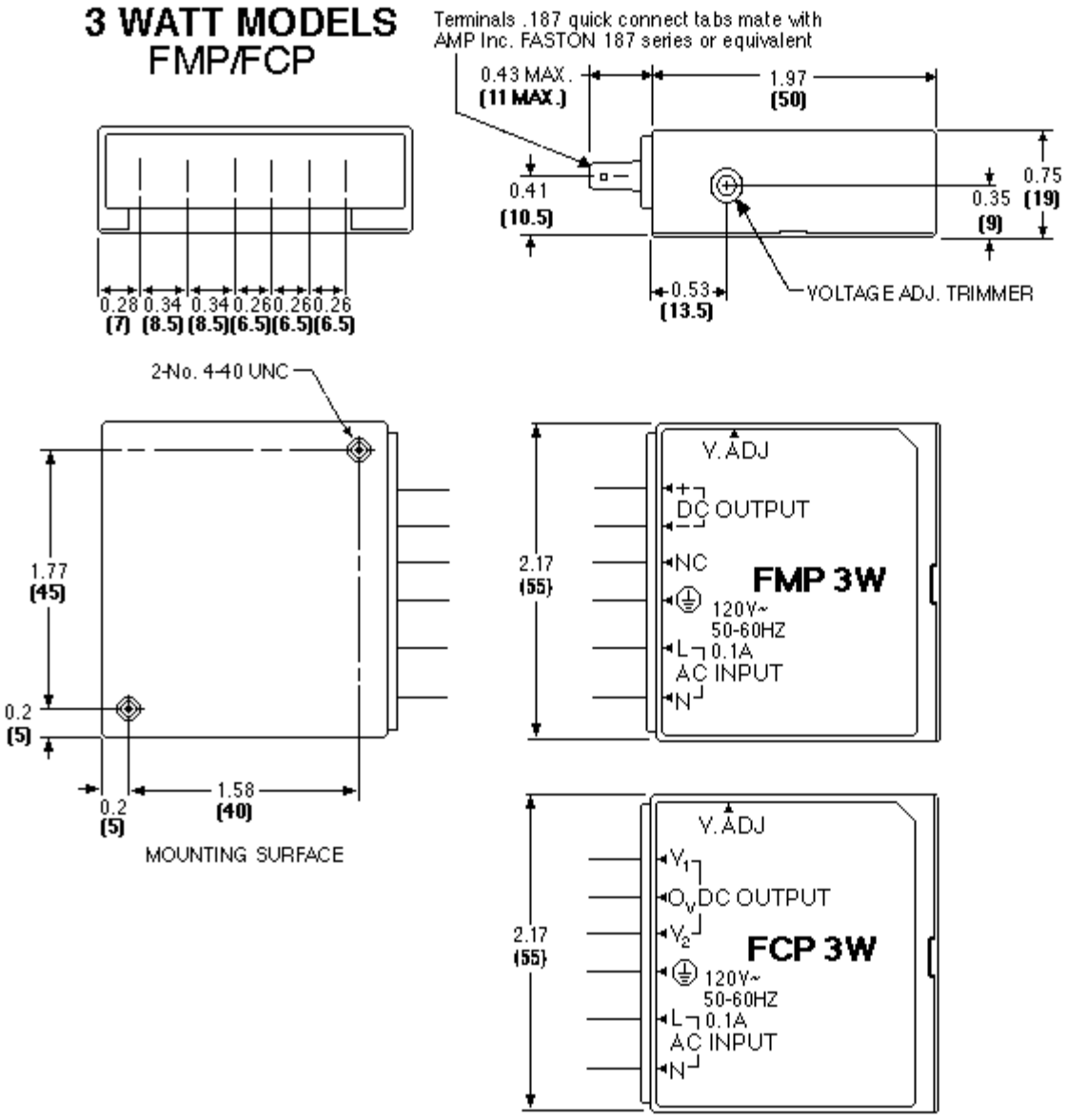
- inches ‹ 0.75 x 2.17 x 1.97
- mm ‹ 19 x 55 x 50

WEIGHT (Packed for shipment)

- 3W: 2.82oz, 80gm

Fractional dimensions in light face type are in inches, dimensions in bold face type are in millimeters.

Tolerances: 0.4" (1.0mm) unless otherwise noted
Munting: 4-40 tapped holes --(2) side; maximum screw penetration 0.2" (5mm)



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DIMENSIONS (HxWxD)

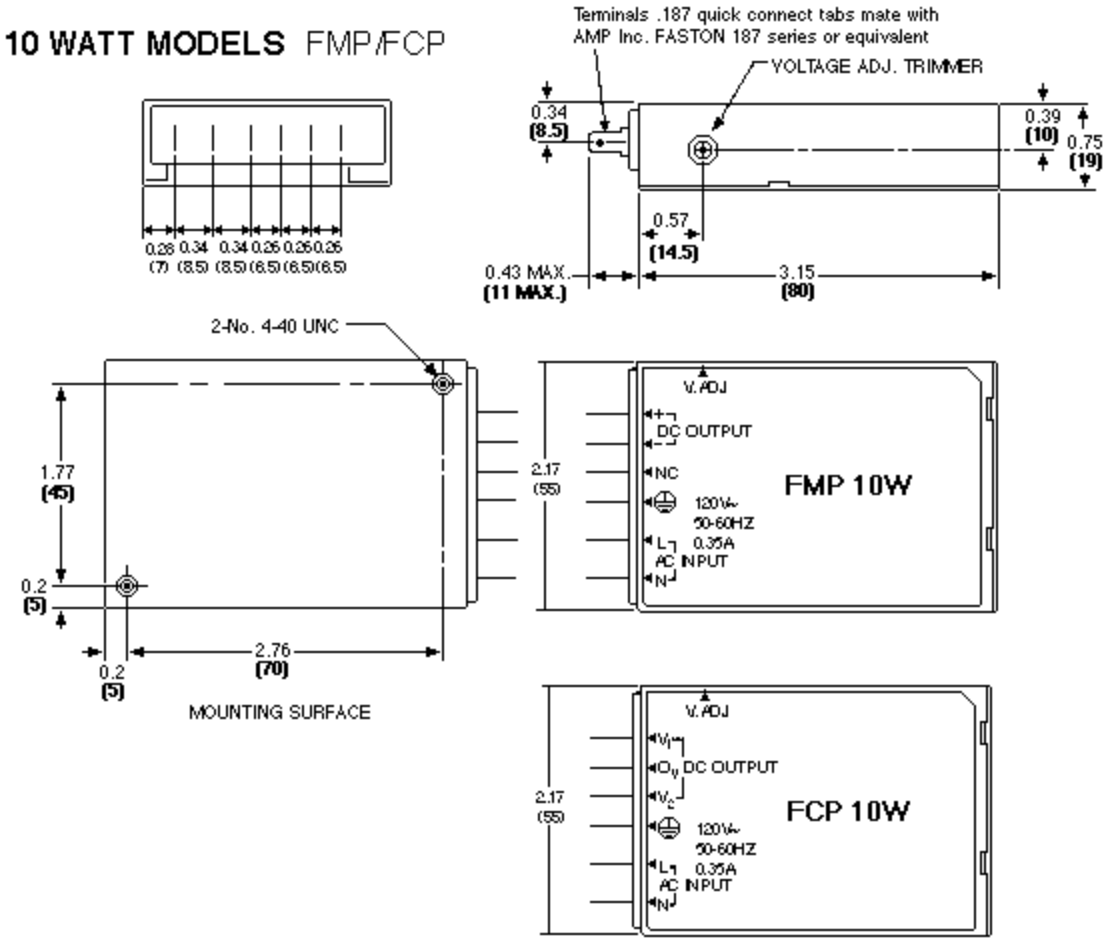
- inches ‹ 0.75 x 2.17 x 3.15
- mm ‹ 19 x 55 x 80

WEIGHT (Packed for shipment)

- 3.53oz, 100gm

Fractional dimensions in light face type are in inches, dimensions in bold face type are in millimeters.

Tolerances: 0.4" (1.0mm) unless otherwise noted
Munting: 4-40 tapped holes --(2) side; maximum screw penetration 0.2" (5mm)



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