

FLEXIBLE

MULTI-OUTPUT POWER SUPPLIES



15W

1.02"H x 1.97"W x 5"D
26mm x 50mm x 127mm
5.3 oz./ 150g

30W

1.02"H x 2.56"W x 5.51"D
26mm x 65mm x 140mm
7.4 oz./ 210g

60W

1.02"H x 3.27"W x 7.28"D
26mm x 83mm x 185mm
11.6 oz./ 330g

KePCO's Series MTW are 15, 30 and 60 Watt, triple-output, affordable PC card-style RoHS (Reduction of Hazardous Substances) compliant power supplies. All three models produce 5 volts and ± 12 volts d-c from an a-c input that accepts 85-265V a-c. The 5V output is isolated from the ± 12 V outputs and there is no minimum loading requirement on any of the outputs.

All MTW models meet UL 60950-1.c-UL and TÜV Rheinland EN60950 requirements. CE marked per LVD. The MTW comply with all relevant EMI, Class B conducted and ESD specifications.

Please visit www.kepcopower.com/mtw.htm to check out the full specifications of our new MTW models. Visit www.kepcopower.com/jbw.htm to see full specifications on our related single-output JBW series of 10, 15, 30, 50, 75, 100 and 150W power supplies, or give us or your local representative a call.



MTW MODEL TABLE

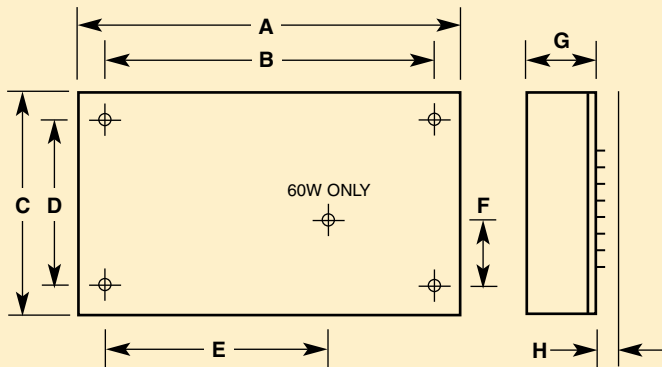
MODEL	OUTPUT	OUTPUT VOLTAGE (1)		OVP SETTING(2)	OUTPUT CURRENT	PEAK CURRENT(3)	OVER CURRENT(4)	RIPPLE	SPIKE NOISE	SWITCHING FREQUENCY	EFFICIENCY
		FACTORY SET	SETTING TOLERANCE					0°C TO 60°C	0°C TO 60°C		
		Volts	Volts					mV p-p	mV p-p		
15 WATT MODEL											
MTW 15-51212K	1	5	4.75-5.25	5.7 min.	2.0	3.0	3.15 min.	100	120	25-300	71
	2	+12	11.4-12.6	—	0.3	0.6	0.63 min.	120	150	25-300	71
	3	-12	11.4-12.6	—	0.2	0.3	0.32 min.	120	150	25-300	71
30 WATT MODEL											
MTW 30-51212K	1	5	4.90-5.30	5.8 min.	3.0	4.5	4.7 min.	80	120	70 typ	76
	2	+12	11.4-12.6	—	1.2	2.0	2.1 min.	100	150	70 typ	76
	3	-12	11.4-12.6	—	0.3	0.45	0.48 min.	100	150	70 typ	76
60 WATT MODEL											
MTW 60-51212K	1	5	4.90-5.30	5.8 min.	5.0	7.0	7.4 min.	80	120	70 typ	76
	2	+12	11.4-12.6	—	2.5	3.5	3.7 min.	100	150	100 typ	76
	3	-12	11.4-12.6	—	0.5	0.7	0.75 min.	100	150	100 typ	76

(1) 5V output floating from ± 12 V outputs.
 (2) Zener diode clamp method; protects load against faulty power supply; power supply cannot restart.
 (3) 10 sec. max. Total power limited to 15, 30 and 60 watts respectively.
 (4) Hiccup type; automatic recovery after cause of overcurrent is removed. Avoid overcurrent operation to prevent component degradation.

MTW GENERAL SPECIFICATIONS			
SPECIFICATION	RATING/DESCRIPTION	CONDITION	
Temperature	-10°C to +60°C	Operating, start up at -20°C; convection cooling	
	-30°C to +75°C	Storage	
Withstand Voltage input to output	3.0 KV a-c 1 minute	5 to 35°C ambient, 45 to 85% relative humidity, cutout current 10 mA	
	input to chassis		2000V a-c 1 minute
	output to chassis		500V a-c 1 minute

MTW DIMENSIONS								
MODEL	A	B	C	D	E	F	G	H
15W	5.0	4.724	1.97	1.693			0.91	0.12
	127	120	50	43			23	3
30W	5.51	5.197	2.56	2.244			0.91	0.12
	140	132	65	57			23	3
60W	7.28	6.969	3.27	2.953	4.370	1.417	0.91	0.12
	185	177	83	75	111	75	23	3

Dimensions in light face type are in inches, dimensions in bold face are in millimeters.
Mounting: 15/30W - 4 mounting holes; 60W - 5 mounting holes.



MTW CONNECTORS			
SPECIFICATION	POWER SUPPLY END	MATING CONNECTOR	
		SOCKET HOUSING	TERMINAL PIN
Input	B3P5-VH-B (1)	VHR-5N (1)	SVH-21T-P1.1 (1)
Output	15W	B8B-XH-A-2 (1)	XHP-8 (1)
	30W	B6P-VH-B (1)	XHR-6N (1)
	60W	B8P-VH-B (1)	XHR-8N (1)
			SVH-001T-0.6 (1)
			SVH-21T-P1.1 (1)
			SVH-21T-P1.1 (1)

(1) Manufacturer: Japan, Solderless Terminal Mfg. Co. Ltd, VH Series

MTW ACCESSORIES			
ACCESSORY FOR	PART NUMBER	DESCRIPTION	
Cable Kit (Optional)	15W	KIT 219-0485	Includes one input and one output cable (one meter long) with mating connectors for CN1(input) and CN2(output), unterminated at other end
	30W	KIT 219-0486	
	60W	KIT 219-0487	
Enclosure (Optional)	15W	CA 39	Galvanized steel
	30W	CA 40	
	60W	CA 41	

MTW INPUT CHARACTERISTICS					
SPECIFICATION	MTW 15-51212K	MTW 30-51212K	MTW 60-51212K	CONDITION	
a-c Voltage ⁽¹⁾	nom	100-120V a-c, 200-240V a-c		0-100% load, -10 to +60°C Safety agency approval applies only to a-c input operation	
	range	85-265V a-c			
d-c Voltage ⁽¹⁾	range	110-370V d-c			
Frequency	nom	50/60 Hz		0-100% load, -10 to +60°C	
	range	47-440Hz			
Input Current	100V a-c	0.42A typ	0.8A typ	1.4A typ	100% load @ 25°C nominal output voltage
	240V a-c	0.25A typ	0.4A typ	0.8A typ	
Input Surge	100V a-c	25A typ	20A typ	20A typ	First surge only, not including current flow into EMI filter; 100% load, 25°C cold start
	240V a-c	50A typ	40A typ	40A typ	
Start-up Time	100V a-c	100mS max	300mS max ⁽²⁾	350mS max ⁽²⁾	(+5V, ±12V) Output voltage may not rise with constant current load
	240V a-c	100mS max	120mS max ⁽²⁾	150mS max ⁽²⁾	
Holdup Time	100V a-c	20mS max	20mS max	20mS max	100% output load
	240V a-c	150mS max	140mS max	180mS max	

- (1) Operation at voltage below specified range for more than 10 minutes may cause component degradation.
(2) Output voltage may rise momentarily, then drop during brief input voltage interruptions.

MTW OUTPUT CHARACTERISTICS					
SPECIFICATION	OUTPUT #1	OUTPUT #2	OUTPUT #3	CONDITION	
Source Effect	15W	0.4% max	0.4% max	0.4% max	85-132V a-c, 170-265V a-c
	30/60W	1% max	0.4% max	0.4% max	
	60W	2% max	2% max	1% max	
Load Effect	15/30W	2% max	1% max	1% max	10-100% load
	30W	2% max	2% max	1% max	
	60W	2% max	2% max	1% max	
Temperature Effect	15W	1% max	1% max	1% max	-10 to 50°C
	30W	2% max	1% max	1% max	
	60W	2% max	2% max	1% max	
Combined Effect	15W	2% max	2% max	2% max	Overshoot at start-up: 4% typ
	30W	3% max	2% max	2% max	
	60W	2.5% max	2.5% max	2% max	
Time Effect (Drift)	15W	2% max	1% max	1% max	1/2 to 8 hr.
	30/60W	1% max	1% max	1% max	
	60W	1% max	1% max	1% max	
Transient Recovery	4% output voltage excursion			Step load change from 50% to 100% of rated load in 50 microseconds or more; temperature range from -10°C to 60°C.	

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