When you need to GET THIN, nothing measures up to the SERIES RTW POWER SUPPLIES from KEPCO

50W / 100W / 150W / 300W





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RTW MODEL TABLE										
MODEL	OUTPUT VOLTAGE	SETTING TOLERANCE	ADJUSTMENT RANGE	OVP SETTING ⁽¹⁾	OUTPUT CURRENT	OUTPUT POWER (2)	CURRENT LIMIT SETTING ⁽³⁾	RIPPLE/ RIPPLE NOISE (4)	EFFICIEN TYPI	
	Volts	Volts	Volts	Volts	Amps	Watts	Amps	mV p-p	100V a-c	200V a-c
50 WATT MODELS	50 WATT MODELS									
RTW 3.3-12.5K	3.3	±0.03	2.6~4.0	4.2~5.2	12.5	41.2	13.2~15.6	80/120	75	77
RTW 5-10K	5	±0.05	4.0~5.8	6.0~6.9	10	50	10.5~12.5	80/120	80	82
RTW 12-4.3K	12	±0.12	9.6~13.2	13.7~15.7	4.3	51.6	4.5~5.4	100/150	81	83
RTW 15-3.5K	15	±0.15	12.0~16.5	17.0~19.0	3.5	52.5	3.68~4.38	100/150	82	85
RTW 24-2.2K	24	±0.24	19.2~26.4	27.0~30.5	2.2	52.8	2.3~2.75	150/200	82	85
RTW 28-1.8K	28	±0.28	22.4~30.8	32.0~35.0	1.8	50.4	1.9~2.25	150/200	82	85
RTW 48-1.1K	48	±0.48	38.4~52.8	55.0~60.0	1.1	52.8	1.15~1.38	200/300	82	85
100 WATT MODELS										
RTW 3.3-25K	3.3	±0.03	2.6~4.0	4.2~5.2	25	82.5	26.2~33.7	80/120	79	81
RTW 5-20K	5	±0.05	4.0~5.8	6.0~6.9	20	100	21.0~25.0	80/120	83	85
RTW 12-8.4K	12	±0.12	9.6~13.2	13.7~15.7	8.4	100.8	8.82~10.5	100/150	84	86
RTW 15-6.7K	15	±0.15	12.0~16.5	17.0~19.0	6.7	100.5	7.03~9.04	100/150	85	87
RTW 24-4.2K	24	±0.24	19.2~26.4	27.0~30.5	4.2	100.8	4.42~5.25	150/200	85	87
RTW 28-3.6K	28	±0.28	22.4~30.8	32.0~35.0	3.6	100.8	3.78~4.86	150/200	85	87
RTW 48-2.1K	48	±0.48	38.4~52.8	55.0~60.0	2.1	100.8	2.2~2.62	200/300	85	88
150 WATT MODELS										
RTW 3.3-35K	3.3	±0.03	2.85~4.0	4.2~5.2	35	115.5	38.5~45.5	80/120	80	83
RTW 5-30K	5	±0.05	4.0~5.8	6.0~6.9	30	150	33~39	80/120	83	86
RTW 12-12K	12	±0.12	9.6~13.2	13.7~15.7	12.5	150	13.7~16.3	100/150	84	87
RTW 15-10K	15	±0.15	12.0~16.5	17.0~19.0	10	150	11~13	100/150	84	87
RTW 24-6.3K	24	±0.24	19.2~26.4	27.0~30.5	6.3 (5)	151.2	10.5~13.5	150/200	86	88
RTW 28-5.4K	28	±0.28	22.4~30.8	32.0~35.0	5.4	151.2	5.94~7.02	150/200	86	88
RTW 48-3.2K	48	±0.48	38.4~52.8	55.0~60.0	3.2	153.6	3.52~4.16	200/300	86	89
300 WATT MODELS										
RTW 3.3-70KC	3.3	±0.03	1.8~3.6	4.0~4.6	70	231	73.5~84	80/120	83	86
RTW 5-60KC	5	±0.05	3.5~5.6	6.2~7.0	60	300	63~72	80/120	84	87
RTW 12-25KC	12	±0.12	7.2~14.4	14.8~16.8	25	300	26.3~30	100/150	83	86
RTW 15-20KC	15	±0.15	10.5~18.0	18.6~21.0	20	300	21~24	100/150	85	88
RTW 24-13KC	24	±0.24	16.8~26.4	29.8~33.6	13	312	13.7~15.6	150/200	85	88
RTW 28-11KC	28	±0.28	19.6~33.6	34.7~39.2	11	308	11.5~13.2	150/200	85	88
RTW 48-6.5KC	48	±0.48	33.6~55.0	55.5~59.9	6.5	312	6.8~7.8	200/300	86	89

⁽¹⁾ An overvoltage shuts down the output. Recover by recycling a-c input (30 second delay required before resetting).

⁽⁵⁾ Peak current 10A, maximum duration 10 seconds.











⁽²⁾ See rating curves for temperature and input voltage derating.

⁽³⁾ Square type for 50W and 300W models; hiccup mode operation for 100W and 150W models. After the cause of overcurrent is removed, output recovers automatically.

⁽⁴⁾ Bandwidth 100MHz. The ripple and noise values tabulated are valid when the output is derated as shown in rating curves from 40°C to 71°C.



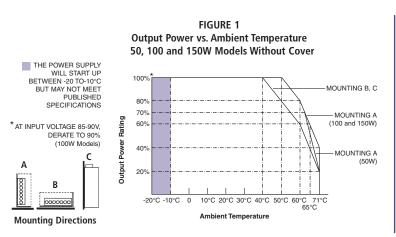
Kepco's RTW series are RoHS compliant, general-purpose, L-chassis, single-output power supplies. They are available in 50, 100, 150 and 300 watt power levels. Their small size and very low profile allows the RTW to be fitted into small spaces. They feature full safety compliance to international standards and have suppressed both conducted and radiated EMI to FCC Class B levels. Power Factor Correction (PFC) is standard, with the input power factor typically equal to 0.99. This minimizes the potential for the introduction of distortion on the a-c mains as the power supply's input conduction takes place over the entire a-c cycle.

A green power-on LED provides visual evidence of operation. An isolated remote ON-OFF control is built-in, as is remote error sensing. (A 4-wire Kelvin connection on the load reduces the losses in the d-c load wires.) RTW may be operated in series for increased output voltage. The output of the 50W and 300W models is current limited with a "square type" current limit circuit. The 100 and 150W models have a "hiccup" mode, in which the power supply periodically checks to determine if the overload has been removed and when it senses that it has, the output voltage is automatically restored. Output voltages are user-adjustable. Current limit is factory set. When an overvoltage is detected, the output voltage shuts down. Reset by using ±RC terminals. An interval of 30 seconds before restarting is required if input power is switched off.

Only the 300W models with the suffix "KC" include an aluminum cover. The 50, 100 and 150W models are open frame with an optional factory installed cover (add suffix "C" to the model number).

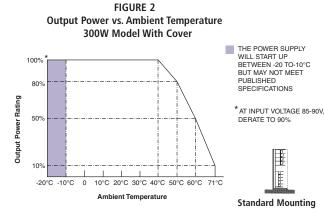
FOR FULL SPECS VISIT

www.kepcopower.com/rtw.htm



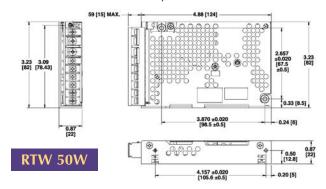
RTW GENERAL SPECIFICATIONS						
SPECIFICA	TION	RATING/DESCRIPTION	CONDITION			
Temperature	Operating	-10 to +50°C	See power rating plot for operation at reduced power up to 71°C, Fig. 1& 2			
	Start Up	-20 to -10°C				
	Storage	-30 to +75°C				
Humidity C	perating/Storage	10 to 95% RH	Non-condensing			
Vibration	5-10Hz	10mm amplitude	Sweep time 10 min. 1 hour each axis			
	10-200Hz	2G	Non-operating			
Shock	Acceleration	20G (300W: 60G)	Orientation A 3 shocks each axis			
	Acceleration	60G	Orientation B,C 3 shocks each axis			
	Duration	11±5 ms	Non-operating			
Safety		UL 60950-1 First Ed,				
		CSA 22.2 No 60950-1				
		TÜV EN60950-1:2001 Assistance for DEN-AN	Ambient temperature			
		CE marked per LVD73/23/EEC and 93/68/EEC ⁽²⁾	50°C max			
Conducted an Radiated Nois		FCC Class B; VCCI Class B EN55011-B EN55022-B				
Input Harmoni	ics Current	EN61000-3-2				
Withstand Voltage	Input to output	3.0kV a-c for 1 minute	Cutout current 10 mA ⁽¹⁾			
	Input to ground	2.0kV a-c for 1 minute	Cutout current 10 mA ⁽¹⁾			
Output to ground		500V a-c for 1 minute	Cutout current 10 mA (1)			
Dimensions HxWxD	50W	82mm x 22mm x 124mm 3.23" x .87" x 4.88"				
	100W	82mm x 25mm x 160mm 3.23" x .98" x 6.3"				
	150W	92mm x 30mm x 180mm 3.62" x 1.18" x 7.09"				
	300W	120mm x 40mm x 250mm 4.72" x 1.57" x 9.84"				
Weight	50W	0.25 kg, 0.55 lbs.				
	100W	0.38 kg, 0.838 lbs.				
	150W	0.52 kg, 1.15 lbs.				
	300W	1.2 kg, 2.65 lbs.				

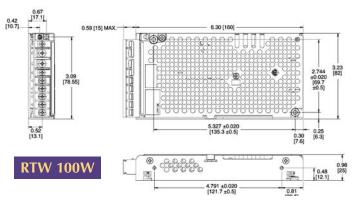
- (1) Temperature: 15°C to 35°C and humidity: 10% to 85% RH.
- (2) Standards do not apply for d-c input.

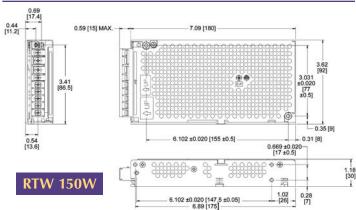


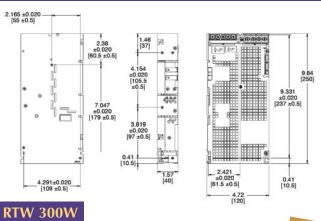
OUTLINE DIMENSIONAL DRAWINGS (Shown with covers)

Dimensions are in inches. Dimensions in parentheses are in millimeters.













SPECIFICATION		RATING/DESCRIPTION	CONDITION	
Input Voltag Nominal	е	100 to 120V a-c, 200 to 240V a-c	0~100% load, -10 to 71°C	
Input Voltage Range		85~265V a-c	0~100% load, -10 to 71°C	
		120~370V d-c	Safety ratings not applicable for d-c input	
Frequency	nom	47~66 Hz	0~100% load,	
. , .	range	47-440Hz ⁽¹⁾	-10 to 71°C	
Input Current (50W)	max	0.7A (0.6A for the 3.3V model)	100-120V a-c	
	max	0.4A (0.3A for the 3.3V model)	200-240V a-c	
Input Current (100W)	max	1.5A (1.1A for the 3.3V model)	100-120V a-c	
	max	0.75A (0.55A for the 3.3V model)	200-240V a-c	
Input Current (150W)	max	1.9A (5V-48V models) 2.7A (24V model) 1.6A (3.3V model)	100-120V a-c	
	max	1.0A (5V-48V models) 1.1A (24V model) 0.85A (3.3V model)	200-240V a-c	
Input Current (300W)	max	4A (3.6A for the 3.3V model)	100-120V a-c	
	max	2A (1.8A for the 3.3V model and 3A for the 24V models)	200-240V a-c	
Surge Current		14A typ (15A, 300W models, 20A max)	100V a-c, 100% load, 25°C	
		28A typ (30A, 300W models, 40A max)	200V a-c, 100% load, 25°C	

RTW OUT	PUT	CHARA	ACTERI	STICS		
SPECIFICATION	RATIN	G/DESCRIPTIO	CONDITION			
Source typ Effect max			0.1%	a-c 85~132 or 170~265V a-c		
Load Effect	typ		0.2%	0 to 100% load		
Temperature Effect max	typ	0.5%			-10 to +71°C	
Combined typ Effect max			1.0% 0.9% 1.8%	Source, Load, Temperature		
Time Effect (drift)	typ	0.2% 0.5%			0.5 – 8 hours	
Remote 3.3V Error 5.0V			15V max 25V max	Per load wire		
Sensing 12~48V Transient Recovery max Characteristic Recovery Time max		0	.4V max ± 4% 1 ms	50% to rated output; transient time>50μsec		
Start Up Time	typ	50-100W 400 ms 500 ms	150W 220 ms 300 ms	300W 220 ms 350 ms	100V a-c	
	max	200 ms 300 ms	120 ms 200 ms	120 ms 200 ms	240V a-c	
Hold Up Time	typ min	30 ms 20 ms	30 ms 20 ms	40 ms	100V a-c	
	typ min	10 ms	40 ms 25 ms	40 ms	240V a-c	
Acceptable Out Capacitor	10,000 μF			Start up time is affected		

Some model specifications vary. Please consult website or factory for more detailed information.