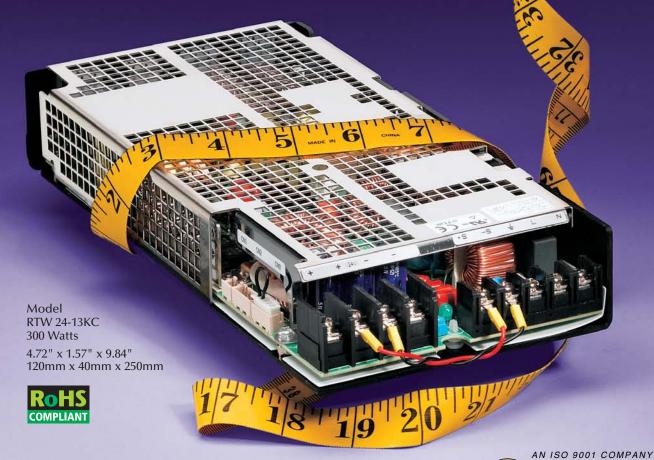
When you need to GET THIN, nothing measures up to the SERIES RTW POWER SUPPLIES from KEPCO

50W / 100W / 150W / 300W





Nothing measures up to the SERIES RTW POWER SUPPLIES from KEPCO

| 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 | | | | | | | | | | |
| 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.



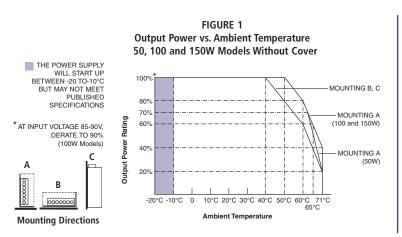
Kepco's RTW series are RoHS compliant, general-purpose, L-chassis, single-output power supplies. They are available in 50, 100, 150 and 300 watt power levels. Their small size and very low profile allows the RTW to be fitted into small spaces. They feature full safety compliance to international standards 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).

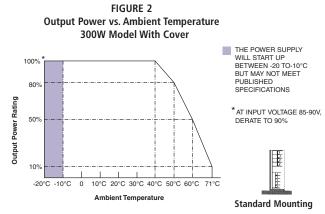
FOR FULL SPECS VISIT

www.kepcopower.com/rtw.htm



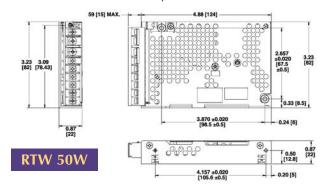
| RTW GEN | ERAL SPECIF | ICATIONS | | |
|----------------------------|-------------------|---|--|--|
| SPECIFICA | TION | RATING/DESCRIPTION | CONDITION | |
| Temperature | Operating | -10 to +50°C | See power rating plot for operation at reduced power up to 71°C, Fig. 1& 2 | |
| | Start Up | -20 to -10°C | | |
| | Storage | -30 to +75°C | | |
| Humidity C | Operating/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 Harmon | 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⁾ | |
| C | 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. | | |

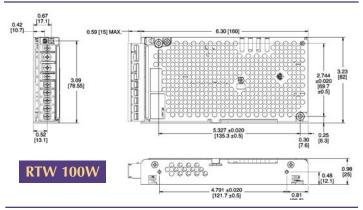
- (1) Temperature: 15°C to 35°C and humidity: 10% to 85% RH.
- (2) Standards do not apply for d-c input.

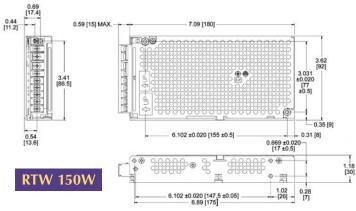


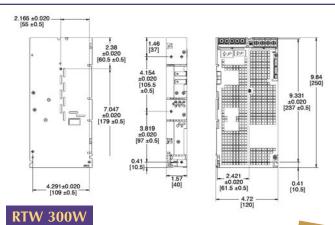
OUTLINE DIMENSIONAL DRAWINGS (Shown with covers)

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













| RTW IN | PUT C | HARACTERISTICS | | |
|----------------------------|-------|--|--|--|
| SPECIFICAT | ION | RATING/DESCRIPTION | CONDITION | |
| Input Voltage Nominal | | 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 inpu | |
| 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 | |

(1) At 400Hz and above, the leakage current exceeds the UL safety specification.

| RTW OUT | PUT | CHARA | CTERI | STICS | | |
|---------------------------------------|-----------|--------------|-----------|--|---------------|--|
| SPECIFICATION | RATIN | G/DESCRIPTIO | CONDITION | | | |
| Source | typ | | 0.1% | a-c 85~132 or | | |
| Effect | max | | 0.2% | 170~265V a-c | | |
| Load | typ | | 0.2% | 0 to 100% load | | |
| Effect | max | | 0.4% | | | |
| Temperature t | | | 0.5% | -10 to +71°C | | |
| Effect max | | | 1.0% | 10101710 | | |
| Combined Effect | typ | 0.9% | | | Source, Load, | |
| | max | | 1.8% | Temperature | | |
| Time Effect (drift) | typ | 0.2% | | | 0.5 – 8 hours | |
| , | max | | 0.5% | | | |
| Remote | 3.3V | 0.15V max | | | | |
| Canaina | 40) (| 0.25V max | | | Per load wire | |
| 0 12 | 9 12~46V | | .4V max | | | |
| Transient Recovery max Characteristic | | | ± 4% | 50% to rated output; transient time>50usec | | |
| Recovery Time max | | | 1 ms | шпохоороос | | |
| Start Up | | 50-100W | 150W | 300W | | |
| Time | typ | 400 ms | 220 ms | 220 ms | 100V a-c | |
| | max | 500 ms | 300 ms | 350 ms | 100 0 0 0 | |
| | typ | 200 ms | 120 ms | 120 ms | 240V a-c | |
| | max | 300 ms | 200 ms | 200 ms | 2101 4 0 | |
| Hold Up | typ | 30 ms | 30 ms | 40 ms | 100V a-c | |
| Time | min | 20 ms | 20 ms | 20 ms | | |
| | typ | 10 ms | 40 ms | 40 ms | 240V a-c | |
| | min | 7 ms | 25 ms | 25 ms | | |
| Acceptable Out Capacitor | 10,000 μF | | | Start up time is affected | | |

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

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