

Miniature Power Supplies for Smart Homes & Smart Offices

To meet the emerging demands of smart building applications,
RECOM extends its existing low-power RAC series
with new household certified AC/DC converters at lower cost.

Intelligently networked smart homes and smart offices often require control systems with many low power nodes, actuators and sensors that are “always on”. RECOM’s low cost AC/DC power supplies were specially designed to power smart building infrastructure 24/7 with very low standby power consumption (as low as 35mW), extra-wide input voltage range and full household (IEC/EN60335-1), CE (LVD+EMC+RoHS2) and industrial safety certifications (IEC/EN/UL60950). They offer compact sizes for easy installation both on- or off-board and deliver reliable, regulated, short-circuit and overload-protected local DC power with reinforced isolation to run smart building automation applications.

Main features:

- 1-20W converters for versatile installation options
- 3-30W converters fit into standard recessed wall boxes (RAC03-SER/277, RACM18-ER, and RACM30-ER)
- Converters with wires*
- Low standby power consumption: down to 35mW
- Wide input voltage range (80-305VAC)
- UL/IEC/EN60950-1 and 60335-1 certified
- UL/IEC/EN60601-1 certified (RACM18-ER and RACM30-ER)
- Fully protected: OVP, OLP, SCP, OTP, UVLO
- 3-year warranty

Applications:

- Smart homes and smart offices
- Building automation
- Security & communication systems
- Door access controls
- Remote sensors and actuators
- Climate controls
- Touchscreen interfaces
- Garage door-openers



RAC01-GA/B, RAC02-GA/B, RAC03-GA/B, RAC04-GA/B, RAC05-K/277, RAC10-K/277

These low cost series were specially designed to continuously and efficiently power smart building infrastructure available in [1W](#), [2W](#), [3W](#), [4W](#), [5W](#) and [10W](#). Universal AC input voltage, built-in EMC filter and output voltages available from 3.3V up to 24V make them suitable for relay actuators, building automation gateways and RF mesh network node applications.

Main features:

- Input voltage: 85VAC up to 305VAC
- Standard outputs: 3.3, 5, 12, 15 and 24VDC
- Excellent efficiency over a wide load range
- Compact package with built-in fuse
- EN60950, EN62368, EN60335-1 certified
- EN55022 class A (-GA version) or class B (-GB version) EMC without additional components



RAC15-K, RAC20-K

The [RAC15-K](#) and [RAC20-K](#) series are PCB-mount AC/DC modules with ultra-low energy losses especially in light load conditions. This makes them ideal for the always-on and standby mode operations needed for IoT and smart home devices. The wired versions RAC20-K/W allow for easy installation away from the PCB.

Main features:

- Wide input range 85-264VAC
- Standby mode optimized PSU (ENER Lot 6)
- Ultra-high efficiency over entire load range
- Operating temperature range: -40°C to +80°C
- Overvoltage and overcurrent protected
- EMC compliant without external components
- No load power consumption < 75mW



RAC03-SER/277, RACM18-ER/W, RACM30-ER/W

The regulated [RAC03-SER/277](#), [RACM18-ER/W](#), and [RACM30-ER/W](#) series power supplies were designed to fit inside standard circular wall boxes. Their round shape and low profile means that it is possible to implement smart home/smart office solutions without extensive renovation works by using the space behind the switch plates. This makes them useful for a variety of applications in building automation, security systems and communication systems.

Main features:

- Wide input voltage ranges for global compatibility
- Standard outputs: 3.3, 5, 12 and 24V
- Installation in standard recessed circular wall boxes
- Low profile of only 11mm (RAC03-SER/277)
- Isolation: up to 4.4kVAC/1min.
- UL/IEC/EN60950-1 and 60335 certified
- IEC/EN60601 medical certified (RACM18-ER/W and RACM30-ER/W)



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