MEDICAL POWER SUPPLIES

Broad AC/DC and DC/DC PSU range

WE POWER YOUR PRODUCTS

POWER SUPPLIES FOR DISTRIBUTED POWER ARCHITECTURE
Today’s medical applications have strict regulatory requirements in both hospital and non-hospital environments. We specifically designed our cost-effective DC/DC and AC/DC power supplies to meet them without compromise. All our medical grade converters are fully tested drop-in products.

**MEDICAL FEATURES**
- 1:1, 2:1 or 4:1 input voltage range (DC/DC)
- UL/IEC/EN60601 3rd Ed. certified with CB report
- No additional components needed for normal operation
- Built-in EN55022 Class A filter
- Reinforced isolation
- 2 x MOPP
- Low leakage current

**HIGH-GRADE MEDICAL DC/DC CONVERTERS**
RECOM’s 3W - 30W medical grade regulated and unregulated DC/DC converters feature 250VAC working voltage, up to 5kVAC/1min reinforced isolation and low 2μA leakage. An optional external control pin brings standby consumption down to 12.5mW.

**COST EFFECTIVE MEDICAL DC/DC CONVERTERS**
Reinforced isolation provides an additional level of safety beyond the standard functional isolation to comply with the medical safety standard UL/IEC/EN60601-1 3rd Ed. Due to an innovative design, RECOM offers low power DC/DC converters in compact packages with up to 10kVDC isolation.

**MEDICAL-GRADE AC/DC CONVERTERS**
RECOM’s RACM series are highly efficient 18W to 1000W AC/DC power supplies with 2 x MOPP safety approval for mains-powered medical applications. These enclosed power supplies have universal AC input voltage, 4kVAC isolation, low standby consumption, active PFC (>0.95) and do not require a minimum load.

**For more details please visit:** www.recom-power.com/medical
POWER CONTROL SYSTEMS propose a wide range of power supplies for electromedical appliances for analysis labs and with characteristics that are suitable for the contact with the patient, highly insulated and with a low leakage current. Conformity with the standards of the sector. Markings and approvals on.

BROAD RANGE OF AC/DC AND DC/DC PSU
- Single output and multi-output versions available
- High efficiency
- Low ripple and noise
- UL recognized, IMQ approved, CSA certified versions

OUR PRODUCTS:

19” PLUG-IN-MODULE M428-R-X-N2
- @ Drift
- 500ppm/°C for current feedback signal
- 50ppm/°C for output voltage regulation
- EMI Filter
- Short circuit protection constant current
- Overvoltage protection at Vout+25% typ
- Medical compliant

For more details please contact: pcs@recom-power.com
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### AC/DC AND DC/DC CONVERTERS

#### Nominal input voltage (DC)

<table>
<thead>
<tr>
<th>Series</th>
<th>Power</th>
<th>Case size</th>
<th>Single/Dual</th>
<th>1:1 Range</th>
<th>2:1 Range</th>
<th>4:1 Range</th>
<th>features</th>
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</thead>
<tbody>
<tr>
<td>REM1</td>
<td>1W</td>
<td>SIP7</td>
<td>S</td>
<td>3.3 / 5 / 12 / 15</td>
<td></td>
<td></td>
<td>2MOPP@250VAC</td>
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<tr>
<td>REM2</td>
<td>2W</td>
<td>SIP8</td>
<td>S+D</td>
<td>3.3 / 5 / 12 / 15 / 24</td>
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<td>2MOPP@250VAC</td>
</tr>
<tr>
<td>REM3</td>
<td>3W</td>
<td>DIP24</td>
<td>S+D</td>
<td>5 / 12 / 24 / 48</td>
<td>24 / 48</td>
<td></td>
<td>5kVAC isolation</td>
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<tr>
<td>REM3.5E</td>
<td>3.5W</td>
<td>DIP24/SMD</td>
<td>S+D</td>
<td>5 / 12 / 24 / 48</td>
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<td></td>
<td>2MOPP@250VAC</td>
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<tr>
<td>REM5E</td>
<td>5W</td>
<td>DIP24/SMD</td>
<td>S+D</td>
<td>5 / 12 / 24 / 48</td>
<td></td>
<td></td>
<td>2MOPP@250VAC</td>
</tr>
<tr>
<td>REM6</td>
<td>6W</td>
<td>DIP24</td>
<td>S</td>
<td>5 / 12 / 24 / 48</td>
<td>24 / 48</td>
<td></td>
<td>5kVAC isolation</td>
</tr>
<tr>
<td>REM6E</td>
<td>6W</td>
<td>SIP24/SMD</td>
<td>S+D</td>
<td>12 / 24 / 48</td>
<td></td>
<td></td>
<td>2MOPP@250VAC</td>
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<tr>
<td>REM10</td>
<td>10W</td>
<td>DIP24</td>
<td>S+D</td>
<td>5 / 12 / 24 / 48</td>
<td>24 / 48</td>
<td></td>
<td>5kVAC isolation</td>
</tr>
<tr>
<td>REM15</td>
<td>15W</td>
<td>1.6&quot;x1&quot;</td>
<td>S+D</td>
<td>24 / 48</td>
<td></td>
<td></td>
<td>5kVAC isolation</td>
</tr>
<tr>
<td>REM20</td>
<td>20W</td>
<td>1.6&quot;x1&quot;</td>
<td>S+D</td>
<td>24 / 48</td>
<td></td>
<td></td>
<td>5kVAC isolation</td>
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<tr>
<td>REM30</td>
<td>30W</td>
<td>2&quot;x1&quot;</td>
<td>S+D</td>
<td>24 / 48</td>
<td></td>
<td></td>
<td>5kVAC isolation</td>
</tr>
</tbody>
</table>

#### Norms/Standards
- UL/CSA/IEC/EN 60601-1 3rd Edition medical safety certified, EN 60601-1-2 4th Edition medical EMC compliant with external filter, 2 MOPP/2MOOP with 250V AC working voltage, <8mm creepage/clearance, low leakage current

### DC/DC, AC/DC, DC/AC SOLUTIONS

#### Rating

<table>
<thead>
<tr>
<th>Input voltage</th>
<th>Output power</th>
</tr>
</thead>
<tbody>
<tr>
<td>AC/DC</td>
<td>24V, 400V</td>
</tr>
<tr>
<td>DC/DC</td>
<td>7V, 800V</td>
</tr>
<tr>
<td>DC/AC</td>
<td>14V, 400V</td>
</tr>
</tbody>
</table>

#### Specifications

| Output voltage | 3.3V         |
| Output current | 250A         |
| Operating-storage temp °C | -40°C to +60°C |
| Efficiency     | up to 92%    |
| Power density (W/liter) | 700 |

#### Mechanical features
- Open card
- Closed box
- 19" rack module

#### Connecting interfaces
- Screw connectors
- DIN 41612 connectors
- Wired connectors (MOLEX)
- Spring connectors (WAGO)
- D-SUB connectors

#### Norms/Standards

(* class I, **class II)

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