EC6AW SERIES
8 WATT 4:1 INPUT DC-DC CONVERTERS

FEATURES

* 8W Isolated Output
* DIP-24/SMD Metal Package
* Efficiency to 86%
* 4:1 Input Range
* Regulated Outputs
* Input Under-Voltage Protection
* Remote On/Off
* Continuous Short Circuit Protection
* Without Tantalum Capacitors Inside
* Safety Meets IEC/EN/UL 62368-1
* Meets EN50155 with External Circuits
* Shock & Vibration Meets EN50155 (EN61373)

<table>
<thead>
<tr>
<th>MODEL NUMBER</th>
<th>INPUT VOLTAGE</th>
<th>OUTPUT VOLTAGE</th>
<th>OUTPUT CURRENT</th>
<th>INPUT CURRENT</th>
<th>% EFF.</th>
<th>CAPACITOR LOAD MAX.</th>
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</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>MIN.</td>
<td>MAX.</td>
<td>NO LOAD</td>
<td>FULL LOAD</td>
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<tr>
<td>EC6AW-24S33</td>
<td>9-36 VDC</td>
<td>3.3 VDC</td>
<td>0 mA</td>
<td>2000 mA</td>
<td>10 mA</td>
<td>344 mA</td>
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<td>EC6AW-24S05</td>
<td>9-36 VDC</td>
<td>5 VDC</td>
<td>0 mA</td>
<td>1600 mA</td>
<td>10 mA</td>
<td>406 mA</td>
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<td>12 VDC</td>
<td>0 mA</td>
<td>666 mA</td>
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<td>392 mA</td>
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<td>0 mA</td>
<td>530 mA</td>
<td>10 mA</td>
<td>390 mA</td>
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<tr>
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<td>±800mA</td>
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<tr>
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<tr>
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<td>±265mA</td>
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</tr>
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<td>18-75 VDC</td>
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<td>2000 mA</td>
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<td>172 mA</td>
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NOTE: 1. Nominal Input Voltage 24 or 48 VDC
INPUT SPECIFICATIONS:

- Input Voltage Range: 24V to 36V
- Input Surge Voltage (100ms max.): 48V
- Under Voltage Lockout: 24Vin power up: 8.8V typ.
- Short Circuit Protection: Continuous
- Temperature Coefficient: ±0.03%/°C

OUTPUT SPECIFICATIONS:

- Voltage Accuracy: ±1.5% max.
- Temp Stability: ±1.0% max.
- Transient Response: 75% - 100% Step Load Change
- Ripple & Noise: 20MHz BW (with 0.1uF MLCC)
- Start up Time: 3.5ms typ.
- Cross Regulation (Dual output): 25%/100% ±5% max.
- Over Voltage Protection: Zener or TVS Clamp
- Line Regulation (note1): Single/Dual ±0.5% max.
- Load Regulation (note2): Single ±0.5% max.
- Cross Regulation (Dual output): Load Cross Variation 25%/100% ±5% max.
- Ripple & Noise: 20MHz BW (with 0.1uF MLCC)

CASE A Dimensions:

- DIP Packages
- SMD Packages

NOTE:
1. Measured from high line to low line.
2. Measured from full load to min. load.
3. Suffix "N" to the model number with negative logic remote on/off
4. Suffix "S" to the model number with SMD package.
5. Maximum case temperature under any operating condition should not be exceeded 100°C.
Mouser Electronics

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