



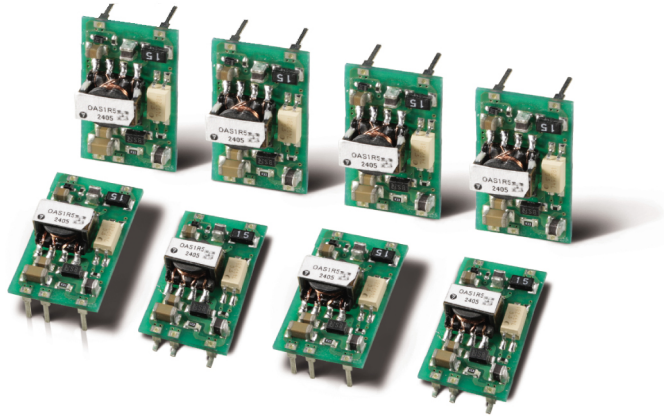
ETA-USA

HIGH QUALITY SWITCHING POWER SUPPLIES

DC/DC SWITCHING POWER SUPPLY
SINGLE CHANNEL OUTPUT
1.5 WATTS

OAS1R5-12 SERIES

RoHS



General Description

Features

Options

Application

Input

Input Voltage: DC12V
Input Voltage Range: DC9~18V

Frequency:
Frequency Range:
Phase:
Inrush Current: *1, *4



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| Output Characteristic | Unit | Models | | | |
|----------------------------|----------------------------|-------------|-------------|-------------|-------------|
| | | OAS1R5-12_3 | OAS1R5-12_5 | OAS1R5-1212 | OAS1R5-1215 |
| Output Voltage | Vdc | 3.3 | 5 | 12 | 15 |
| Output Current (typ.) | A | 0.4 | 0.3 | 0.13 | 0.1 |
| Ripple (max) | mVpp -20 to 55°C | 80 | 80 | 120 | 120 |
| | mVpp -40 to -20°C | 120 | 120 | 150 | 150 |
| Noise (max) | mVpp -20 to 55°C | 120 | 120 | 150 | 150 |
| | mVpp -40 to -20°C | 200 | 200 | 200 | 200 |
| Voltage Adjust Range | V | ±5% | | | |
| Rise time | mS | 20 mS max | | | |
| Hold up time | mS | 20 mS max. | | | |
| Regulation | | | | | |
| a. Line Regulation [max] | mV | 20 | 20 | 48 | 60 |
| b. Load Regulation [max] | mV | 40 | 40 | 100 | 120 |
| c. Temperature Coefficient | -20 to 55°C | 50 | 50 | 150 | 180 |
| | -40 to 55°C | 80 | 80 | 240 | 290 |
| d. Drift(maximum) | mV | 20 | 20 | 48 | 60 |

| | | |
|------------------------|---|-------------------------------|
| Efficiency *1 | % | 72~76% typ. |
| Power Factor *1 | | No power factor needed |





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| Environmental Specification | |
|----------------------------------|-----------------------------------------------------------------------------------------------|
| Operating Temperature*3 | -40 to +85 °C |
| Operating Humidity | 20~95% RH non condensing |
| Storage Temperature | -40 to +100 °C |
| Storage Humidity | 20~95% RH |
| Withstanding Voltage | |
| Isolation Resistance | Primary-Secondary-Frame Ground 100MΩ(minimum) by DC500V insulation tester |
| Vibration | 10-55Hz:19.6m/s ² , 3 minute cycle each along X,Y,Z axes(non-operating) for 1 hour |
| Shock | 196 m/s ² on x,y,z axis |
| Cooling | Convection/ Air forced |
| Leakage current | |
| Environmental Agencies | |
| Line Conducted Noise [EMI] | |
| Line Harmonic Distortion/Current | |
| Safety | UL60950-1 C-UL CE Marking : EN60950-1 |
| Function/Protection | |
| Over current Protection | Vertical limiting at 105% min of rated current, automatic recovery |
| Over voltage Protection | |
| Remote Sense | |
| Remote Control | |
| Series Operation | |
| Parallel Operation | |
| Driving Indicator | |
| Mechanical | |
| Dimension [mm] | 21.4W × 6.5H × 12.2L |
| Weight [g] (max) | 2 |

Conditions:

- *1 Rated input and Rated output
- *2 at Output current quick change 25% to 75%
- *3 At 100% load (convection cooling)
- *4 Cold start at 25 °C Ambient temp.



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Derating Curves

Efficiency Curves

Block Diagram

Mechanical Drawings



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