



ETA-USA

HIGH QUALITY SWITCHING POWER SUPPLIES

DC/DC SWITCHING POWER SUPPLY
SINGLE CHANNEL OUTPUT
3 WATTS

OAS3R0-05 SERIES

RoHS

General Description

Features

Options

Application

Input

Input Voltage DC5V
Input Voltage Range: DC4.5~9V

Frequency:

Frequency Range:

Phase:

Inrush Current: *1, *4



ETA USA

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Output Characteristic		Models			
	Unit	OAS3R0-05_3	OAS3R0-05_5	OAS3R0-0512	OAS3R0-0515
Output Voltage	Vdc	3.3	5	12	15
Output Current (typ.)	A	0.6	0.6	0.25	0.2
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	%	74~79% 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]	24W × 6.5H × 15.1L
Weight [g] (max)	3

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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HIGH QUALITY SWITCHING POWER SUPPLIES

Derating Curves

Efficiency Curves

Block Diagram

Mechanical Drawings



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[OAS3R0-0512](#) [OAS3R0-0515](#) [OAS3R0-05-3](#) [OAS3R0-05-5](#)