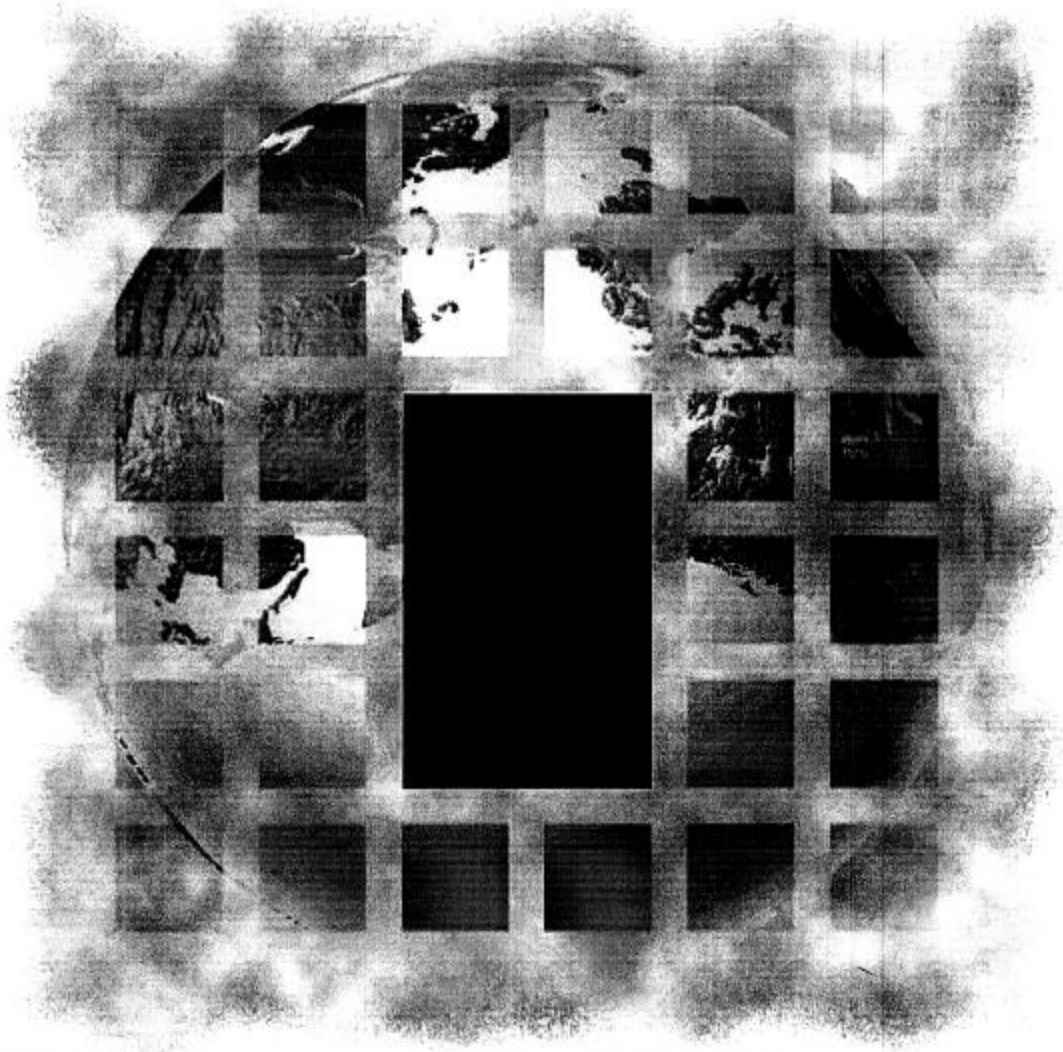


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AV25 Series Single Output

Avansys' AV25 series of switching DC/DC converters are your best option for cost effective power converters. Using an industry standard footprint and pinout, these converters are a logical choice during new prod-

uct design or when looking for better solutions in existing designs.

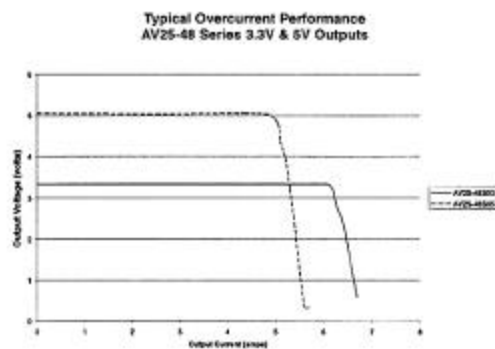
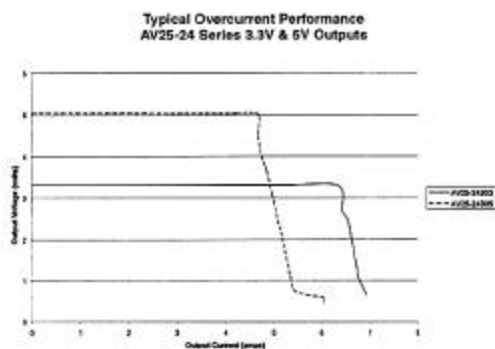
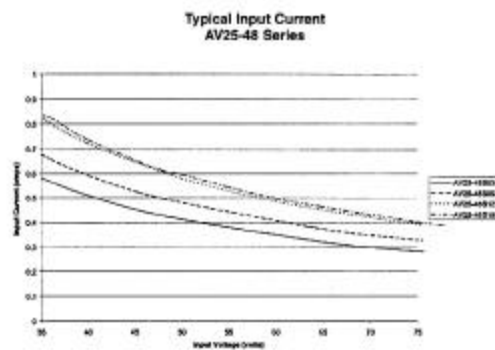
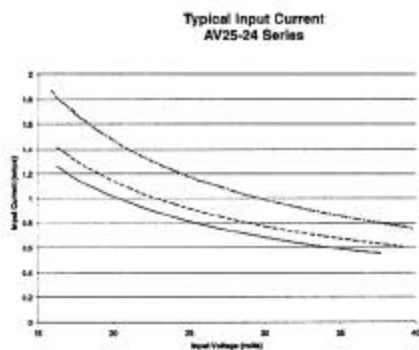
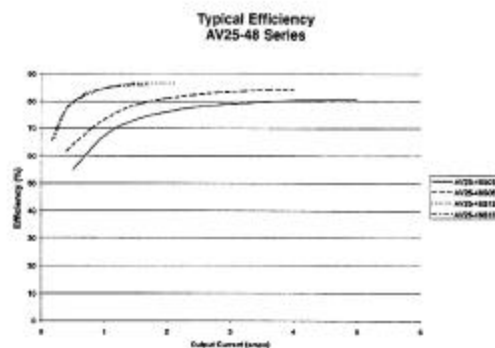
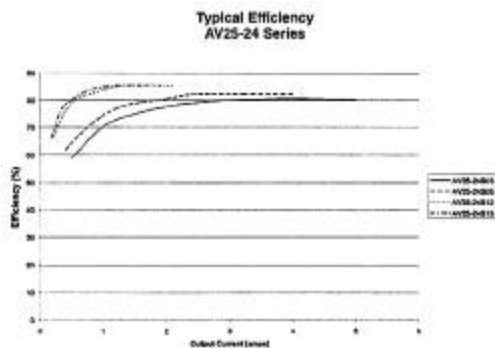
The 25 watt AV25 is available with output voltages of 3.3V, 5V, 12V, or 15V. Each regulated output is fully isolated, and custom voltages are available. Wide input voltage ranges of

24V (18-36V) or 48V (36-72V) can be selected.

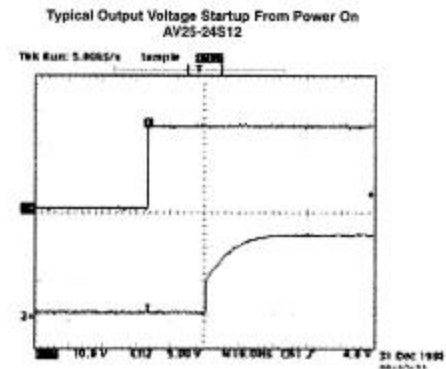
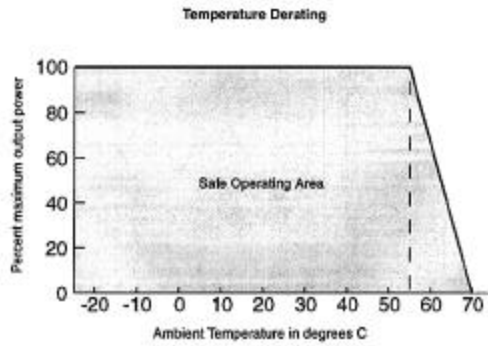
Designed to meet all standard UL, CSA, TUV, VDE, CE, EN, and IEC requirements, these converters are appropriate for most OEM applications.

Common Specs					
Input	Min	Nom	Max	Units	Notes
Input Voltage	18	24	36	Vdc	
	36	48	72	Vdc	
Input transient Isolation			100	Vdc	< 100 ms
Input-Output	500			Vdc	
Input-Case	500			Vdc	
Output-Case	500			Vdc	
I/O Isolation Resistance	300			MΩ	
Control Logic					
Current			0.6	mA	
Logic Low (on)			3.5	V	
Logic High (off)	7			V	
Under Voltage Shutdown					
24Vin	15	16	18	V	
48Vin	30	32	36	V	
Over Voltage Shutdown					
24Vin	36	38	42	V	
48Vin	72	76	82	V	
Output					
Power		25		W	
Voltage Setpoint Accuracy			±1	%	
Line Regulation		±0.05	±0.1	%	
Load Regulation		±0.35	±0.5	%	
Dynamic Response					
50-75%			4.5	%Vo	T=25°C, ΔI/Δt=1A/10μs, 50-75% load
			100	μs	T=25°C, ΔI/Δt=1A/10μs, 50-75% load
50-25%			4	%Vo	T=25°C, ΔI/Δt=1A/10μs, 50-75% load
			100	μs	T=25°C, ΔI/Δt=1A/10μs, 50-75% load
Temperature Response			±0.02	%Vo/°C	-25°C < T < 55°C
General					
MTBF					
24Vin		745		k Hrs	MIL-HDBK-217, 40°C, I=80% max
48Vin		639		k Hrs	MIL-HDBK-217, 40°C, I=80% max
Operating Temperature	-25		70	°C	derate when above 55°C
Storage Temperature	-40		105	°C	
Switching Frequency		330		kHz	
Pin solder temperature			260	°C	Wave solder < 15s
Trim Range	90		110	%Vo	
Weight			63	grams	
Hand Soldering Time			5	s	iron temperature 425°C

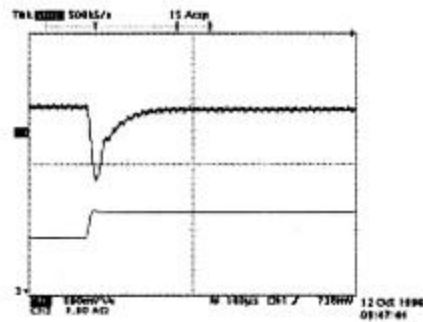
DATE	DOCUMENT NAME	SUBMITTAL #	FCC ID	PAGE
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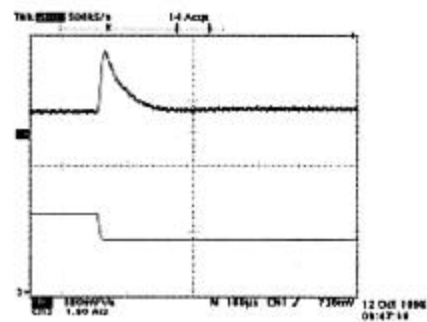
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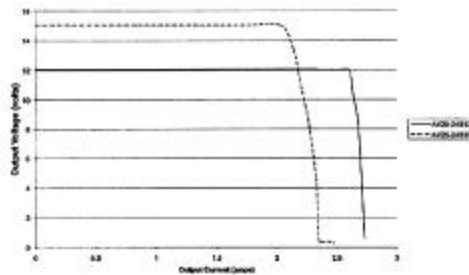
Typical Step Up Load Response From 50% to 75% Load
AV25-48S05



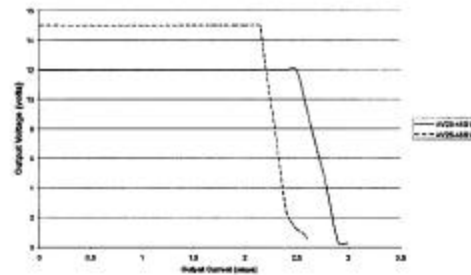
Typical Step Down Load Response From 50% to 25% Load
AV25-48S05



Typical Overcurrent Performance
AV25-24 Series 12V & 15V Outputs



Typical Overcurrent Performance
AV25-48 Series 12V & 15V Outputs

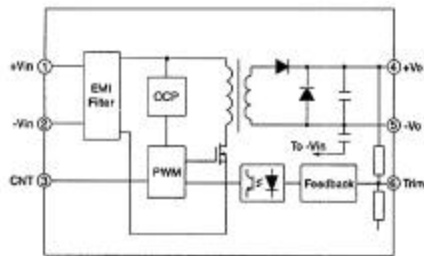


DATE	DOCUMENT NAME	SUBMITTAL #	FCC ID	PAGE
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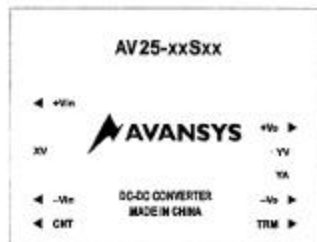
AV25 Series Single Output

Electrical Specs

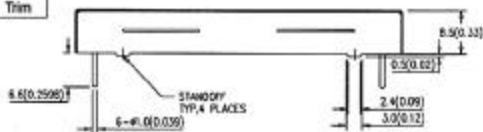
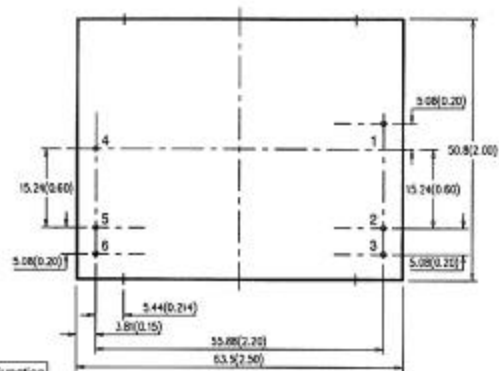
	Nominal Input (V)	Output Voltage (V)	Output Current (A)	Short Circuit Current (A)	Noise/ Ripple (mV rms)		Noise/ Ripple (mV pp)		Efficiency (%)		Overvoltage Lockout (V)	
				typ	typ	max	typ	max	min	typ	min	max
AV25-24S03	24	3.3	5	6.7	10	20	50	75	78	80	3.96	5.0
AV25-24S05	24	5	4	5.3	10	20	50	75	82	83	5.75	7.0
AV25-24S12	24	12	2.1	2.9	10	20	75	100	83	85	13.8	15.5
AV25-24S15	24	15	1.7	2.6	10	20	75	100	83	86	17.0	19.5
AV25-48S03	48	3.3	5	6.7	10	20	50	75	78	80	3.96	5.0
AV25-48S05	48	5	4	5.3	10	20	50	75	82	83	5.75	7.0
AV25-48S12	48	12	2.1	2.9	10	20	75	100	84	86	13.8	15.5
AV25-48S15	48	15	1.7	2.6	10	20	75	100	84	86	17.0	19.5



AV25 Series Single Output Functional Block Diagram



Pin	Function
1	+Vin
2	-Vin
3	CNT
4	+Vo
5	-Vo
6	Trim



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12/20/99	Solctek Corporation SkyWay Wireless LAN Bridge Power Supply Specifications	99-244	KA324WAN5	6

AV25 Series Single Output

Features:

Industry Standard Footprint
Low profile, only 8.5 mm
2:1 input ranges
Fully Isolated
Overcurrent Protection
Input over/under voltage shutdown
Output overvoltage protection
 $\pm 10\%$ trim range
Integrated control logic

About the Company

Avansys is the U.S. based power supply division of Huawei Technologies, a billion dollar telecommunications manufacturer. Backed by Huawei's financial strength and manufacturing expertise, Avansys offers a large variety of high quality, low priced DC/DC converters. Designed for use in telecommunications and industrial applications, each family of converters has undergone a rigorous design and qualification process. Manufactured in ISO 9001 certified facilities, all converters benefit from thorough quality controls.

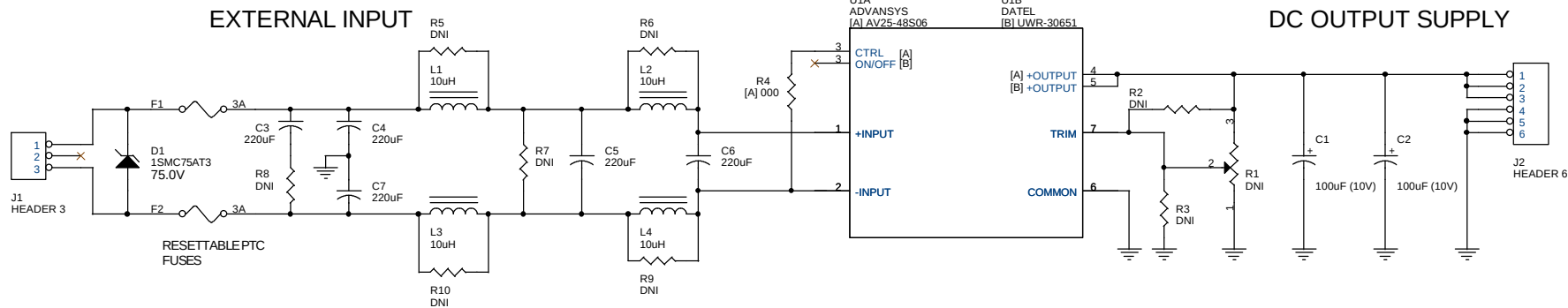
The reliability of Avansys DC/DC converters is proven every day in telecommunications products around the world; and so is the value. Give us a call to find out more.

Contact Information

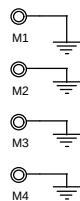
Avansys
2248 North First Street
San Jose, CA 95131

800-871-8626
408-943-8100
408-943-8106 fax
www.avansys.com





MOUNTING HOLES
(DIA. 0.160")



DEDICATED GROUND STRAP



NOTES:

1. SINGLE LAYER BOARD.
2. ONE STUFF OPTION, [A] OR [B], IS CHOSEN.
3. DC/DC CONVERTER IS MOUNTED ON BOTTOM IN ORDER TO HEAT SINK DEVICE TO CHASSIS FLOOR.
4. ALL DISCRETE PARTS ARE ON TOP SIDE AND SMT.

Fab Items

- PCB P/N-1200101

SOLECTEK

Solectek Corporation
6370 Nancy Ridge Drive, Suite 109
San Diego, CA 92122

Title
SkyWay Advansys/Datel DC/DC Converter

Size
B Document Number
1232400 Rev
X2

Design Engineer(s): Jim Hiller
Date: Tuesday, December 07, 1999 Sheet 1 of 1