

FEATURES:

- Universal Input: 90~264VAC
- High Efficiency Up To 85%
- Protection: Short Circuit/Overload/Overvoltage
- Fully Encapsulated Plastic Case
- Internal Input Filter
- RoHS Compliant
- UL Recognized

Specifications typical at TA=25°C nominal input voltage and rated output current unless otherwise specified

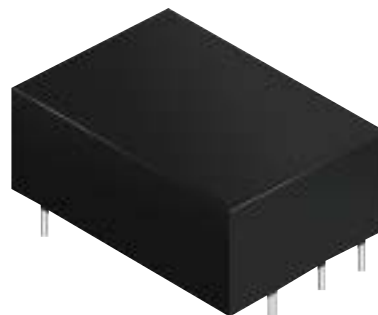
Part Number	Output Wattage	Output Voltage	Output Current	Ripple & Noise	Efficiency
	(W)	(V)	(mA)	(mV) Max (Note)	(% TYP)
AC025-D05	25	±5	±2500	150	75
AC025-D15	24	±15	±800	150	80
AC025-D24	24	±24	±500	150	80
AC025-S03	16.5	3.3	5000	150	75
AC025-S12	25	12	2100	150	80
AC025-S15	26	15	1750	200	82
AC025-S16	26	16	1625	200	82
AC025-S18	26	18	1450	200	82
AC025-S24	26.4	24	1100	240	85
AC025-S27	27	27	1000	240	85
AC025-S36	27	36	750	240	85
AC025-S48	27	48	560	240	85

Note:

Ripple & noise is measured by using 20 MHz bandwidth, measured with 47uf paralleled with a high-frequency 0.47uf capacitor across each output by full load.

ADAM TECH

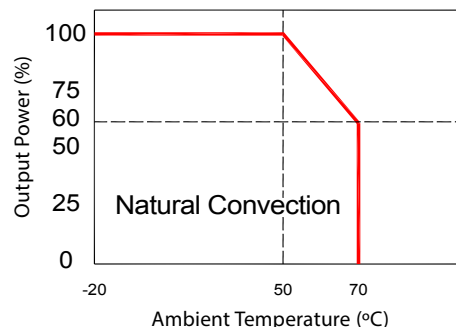
AC-DC Converter
AC025 SERIES
25Watt
3KV Isolated
Single & Dual Output
Module



Input Specifications

Parameters	Conditions	Min	Typ	Max	Units
Rated Input Voltage	Vo, Io nom		100~240		Vac
Voltage Range	Vo, Io nom	AC in	90	264	Vac
		DC in	120	370	Vdc
Line Frequency	Vi nom, Io nom	47	50/60	63	Hz
Inrush Current	Io nom	Vi:115VAC		12	A
		Vi:230VAC		20	A
Input Fuse	VDE/UL/CCC FUSE 2.5A/250V (Slow blow)				

Temperature Derating Graph



Output Specifications

Parameters	Conditions	Min	Typ	Max	Units
Output Voltage Accuracy	Vi nom, Io nom (Single output)	3.3V Models		±3	%
		13...48V Models		±2	%
	Dual Output			±5	%
Minimum Load	Vi nom	Single Output Models		0	%
		Dual Output Models		20	%
Line Regulation	Io nom, Vi min... Vi max			±1	%
Load Regulation	Io min~ Io nom	Single Output Models		±2	%
		Dual Output Models		±5	%
Transient Recovery Time	Vi nom, Io nom = ↔ 0.5 Io nom			1000	us
Protection	Over load	Above 110% rated output power Protection type: Recovers automatically after fault condition is removed			
	Short circuit	Recovers automatically after fault condition is removed			
	Over Voltage (Main Output)	120%-150% rated output Voltage Protection type: Zener diode clamp			

Note:

Ripple & noise is measured by using 20 MHz bandwidth, measured with a 47uF paralleled with a high-frequency 0.47uF capacitor across each output by full load.

General Specifications

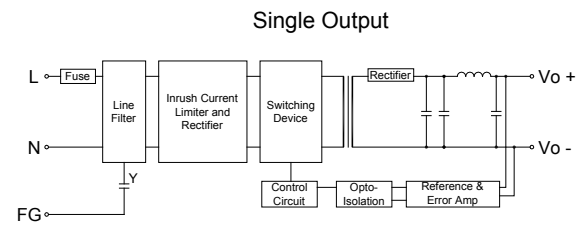
Parameters	Conditions	Min	Typ	Max	Units
Switching Frequency	Vi nom, Io nom	65			KHz
Isolation Voltage	Input / Output	3KVac/ 5mA/5Secs			
Isolation Resistance	Input / Output, @500 Vdc	100	MΩ		
Operation Temperature	Operating at Vi nom, Io nom	-20	+70		°C
Derating	Vi nom, Io nom+51 to 71°C	2			%/°C
Storage Temperature	Non Operational	-40	+85		°C
Relative Humidity	Vi nom, Io nom	95			% RH
Safety Standards	EN 62368-1 approved				
EMI Conduction & Radiation	Compliance to EN55032				
EMS Immunity	Compliance to EN55024				
Dimensions	L76.2x W50.8 x H25.4mm L3.0x W2.0 x H1.0 inches				
Cooling	Free air convection				

Part Number

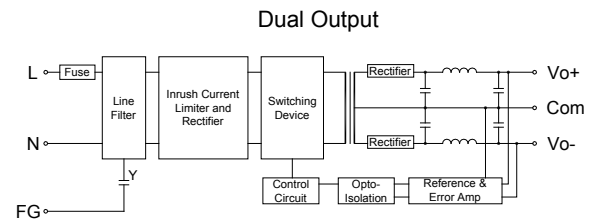
AC025 - D 05
A B C

A: Series
B: Single (S) / Dual Output (D)
C: Output Voltage

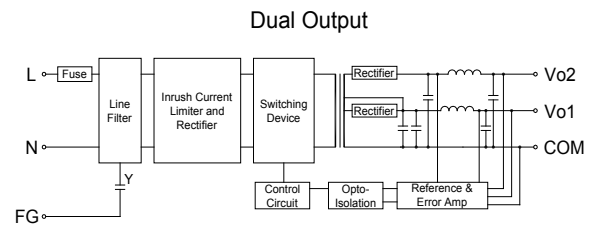
Circuit Schematic (1)



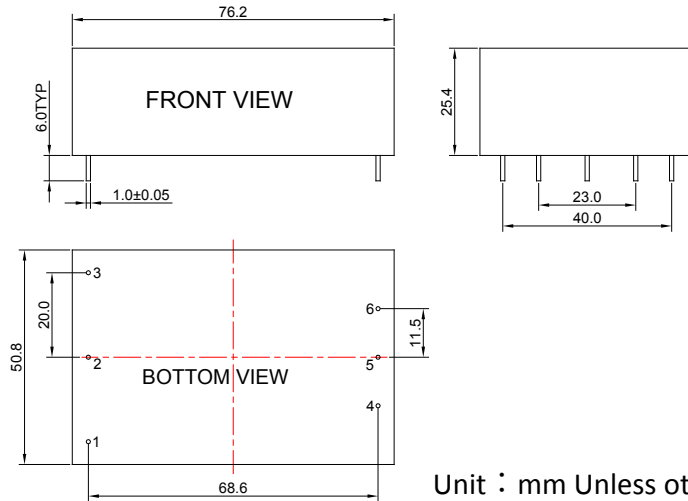
Circuit Schematic (2)



Circuit Schematic (3)



Markings and Dimensions



PIN	Model		
	Single	Dual	Dual
1	FG	FG	FG
2	ACN	ACN	ACN
3	ACL	ACL	ACL
4	-Vo	-Vo	+Vo2
5	NO PIN	Com	Com
6	+Vo	+Vo	+Vo1

Unit : mm Unless otherwise specified, all tolerances are ± 0.50

Mouser Electronics

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[AC025-D05](#) [AC025-S12](#) [AC025-S16](#) [AC025-S36](#) [AC025-D15](#) [AC025-S18](#) [AC025-S27](#) [AC025-S24](#) [AC025-S15](#)
[AC025-S48](#) [AC025-S03](#) [AC025-D24](#)