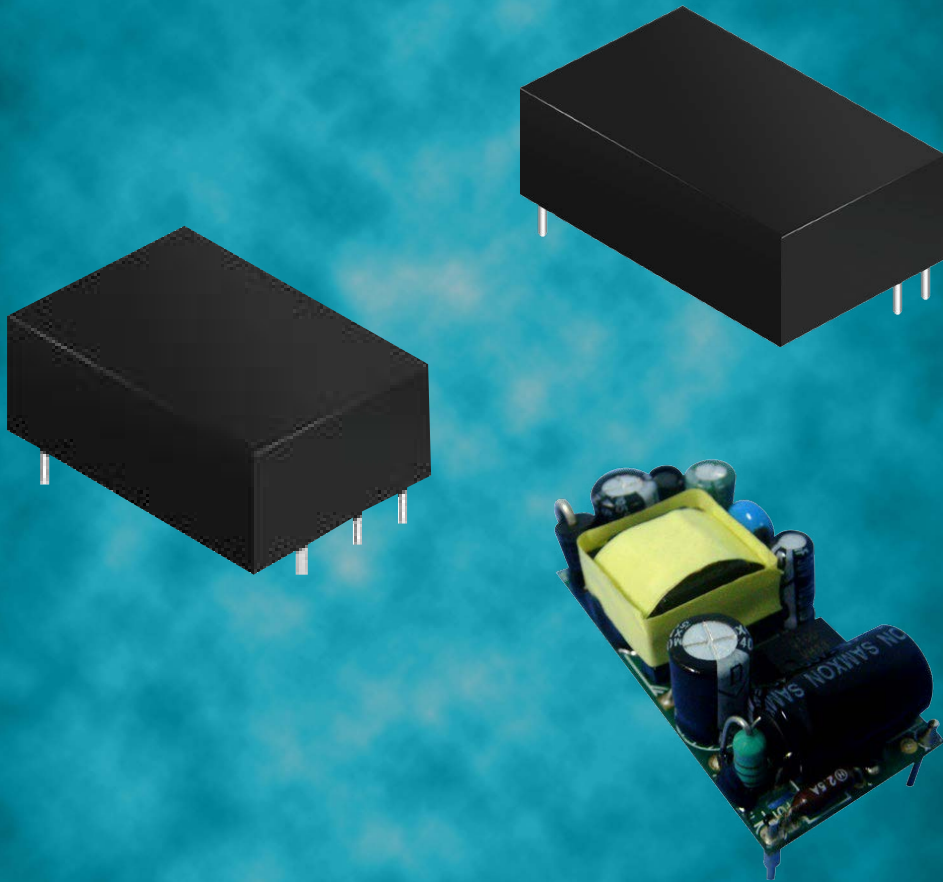


ADAME TECH



AC-DC CONVERTERS

Adam Tech is equipped with an extensive offering of AC-DC Converters. These devices are designed to efficiently convert alternating current (AC) into direct current (DC). This makes them ideal for applications that utilize DC power. Adam Tech's offering is equipped to accommodate these various applications, thanks to its support of a wide range of watts, voltages, and currents. In addition, Adam Tech possesses the ability to manufacture custom converters to meet every customer's needs.

FEATURES AND BENEFITS:

- Efficiently convert AC into DC
- Single and dual output
- Power ranging from 2.64 to 60W
- Output voltages ranging from 3.3 to 48VDC
- Output currents ranging from 104 to 8000mA
- Short circuit/overload protection

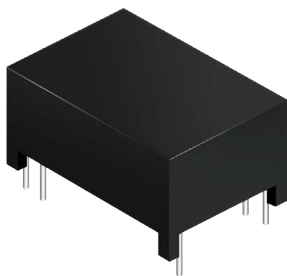
APPLICATIONS:

- Automatic control equipment
- Industrial computers
- Communications and telecommunications equipment
- Smart home appliances and security systems
- Video and image processing equipment (car tag recognition, traffic technology, facial recognition)

SERIES PREVIEW:

AX003 Series

2.64 ~ 3 Watt
3KV Isolated
Single Output



[View Datasheet](#)

AX005 Series

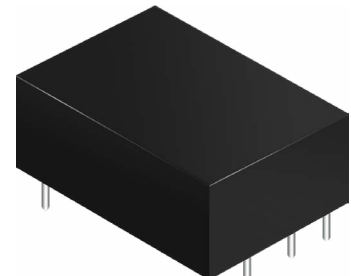
5 Watt
3KV Isolated
Single Output



[View Datasheet](#)

AC010 Series

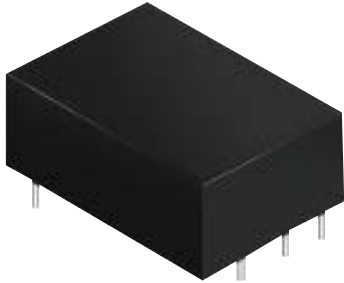
10 Watt
3KV Isolated
Single & Dual Output



[View Datasheet](#)

AC025 Series

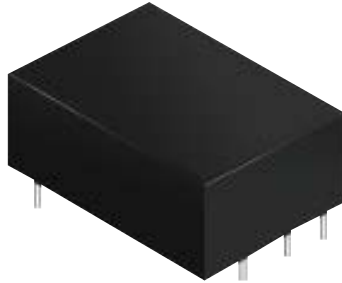
25 Watt
3KV Isolated
Single & Dual Output



[View Datasheet](#)

AC030 Series

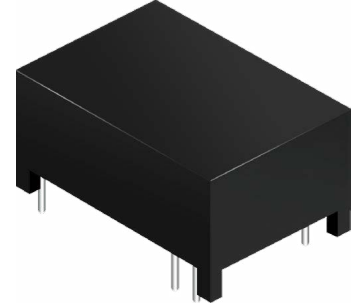
26 ~ 48 Watt
3KV Isolated
Single & Dual Output



[View Datasheet](#)

AC5A Series

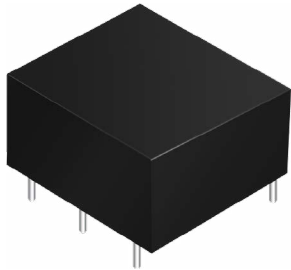
5 ~ 6 Watt
3KV Isolated
Single Output



[View Datasheet](#)

AC5E Series

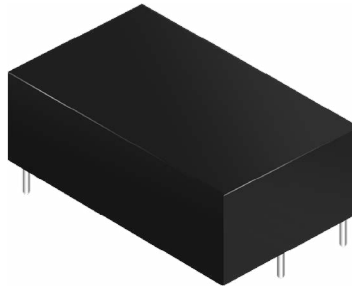
1 ~ 5 Watt
3KV Isolated
Single Output



[View Datasheet](#)

AC10D Series

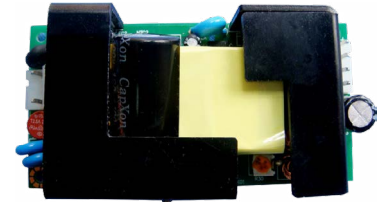
10 ~ 12 Watt
4KV Isolated
Single Output



[View Datasheet](#)

AD60A Series

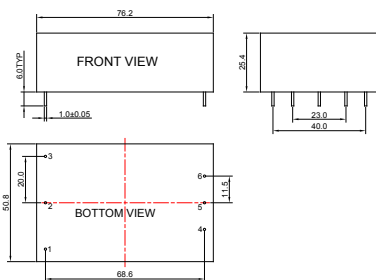
60 Watt
3KV Isolated
Single Output



[View Datasheet](#)

AC025-S05

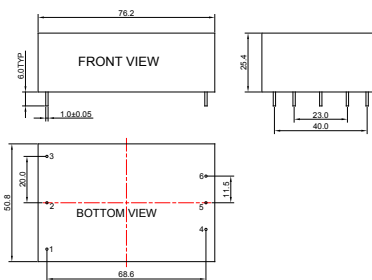
20 Watt
5V Output Voltage
Single Output



[View Datasheet](#)

AC025-S06

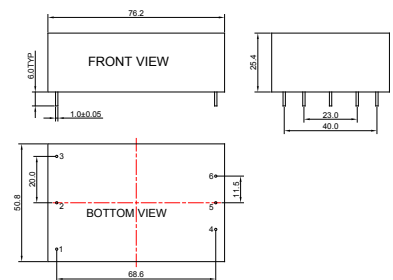
24 Watt
6V Output Voltage
Single Output



[View Datasheet](#)

AC025-S09

22.5 Watt
9V Output Voltage
Single Output



[View Datasheet](#)

FEATURES:

- AC/DC Power Module
- Universal Input: 90~264VAC
- High Efficiency Up To 70%~82%
- Protection: Short Circuit/Overload
- Internal Input Filter
- RoHS Compliant

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

Part Number	Output Wattage	Output Voltage	Output Current (mA)		Ripple & Noise	Efficiency
	(W)	(V)	Min	Max	(mV) Max (Note 2)	(% TYP)
AC003-S03	2.64	3.3	0	800	100	70
AC003-S05	3	5	0	600	100	72
AC003-S06	3	6	0	500	100	72
AC003-S09	3	9	0	333	100	75
AC003-S12	3	12	0	250	100	78
AC003-S24	3	24	0	125	100	80
AC003-S27	3	27	0	110	100	80
AD003-S03	2.64	3.3	0	800	100	70
AD003-S05	3	5	0	600	100	72
AD003-S12	3	12	0	250	100	78

Notes:

1. 2nd Character in Part Number:

- C: Represents module version with enclosure
- D: Represents open frame version without enclosure
- E: Represents wired version with enclosure

2. 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.

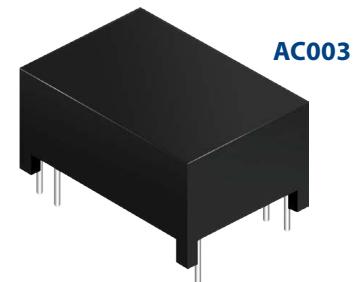
Input Specifications

Parameters	Conditions	Min	Typ	Max	Units
Rated Input Voltage	Vo, lo nom		100~240		Vac
Input Voltage Range	Vo, lo nom	AC in	90	264	Vac
		DC in	120	370	Vdc
Line Frequency	Vi nom, lo nom	47	50/60	63	Hz
Inrush Current	Io nom	Vi:115VAC		10	A
		Vi:230VAC		18	A

ADAM TECH

AC-DC Converter AX003 SERIES

2.64~3 Watt
3KV Isolated
Single Output
Module



Output Specifications

Parameters	Conditions	Min	Typ	Max	Units
Voltage Accuracy	For external circuit please refer to recommended circuit		±1	±3	%
Minimum Load	Vi nom	0			%
Line Regulation	Io nom, Vi min...Vi max			±1	%
Load Regulation	Vi nom, Io min...Io nom			±2	%
Transient Recovery Time	Vi nom, Io nom = ← → 0.5 Io nom		300		µs
Ripple & Noise	Vi nom, Io nom, BW=20MHz (Tested as Figure2)			100	mVp-p
Efficiency	Vi nom, Io nom, Po/Pi			Up to 82%, See models list	

General Specifications

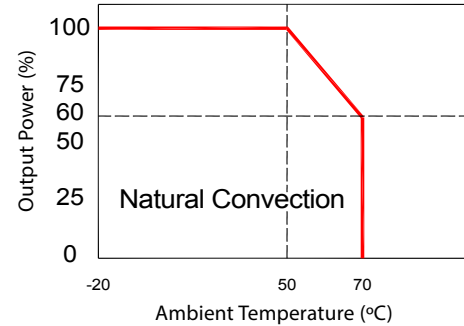
Parameters	Conditions	Min	Typ	Max	Units
Switching Frequency	Vi nom, Io nom		65		KHz
Isolation Voltage	Input / Output			3KVac/ 5mA/5Secs	
Isolation Resistance	Input / Output, @500 Vdc	100			MΩ
Ambient Temperature	Operating at Vi nom, Io nom	-20		+70	°C
Derating	Vi nom, Io nom +51 to 71°C			2	%/°C
Case Temperature	Operating at Vi nom, Io nom			+85	°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	GA003/GC003 L35.05 x W25.40 x H17.78, GA003-SXXB L36.0x W26.2 x H19.75 GB003 L32.5 x W23.0 x H16.0				
Cooling	Free air convection				
Case Material	DAP UL 94V-0				
Weight	GA003/GB003/GC003 30g/12g/32g				

Part Number

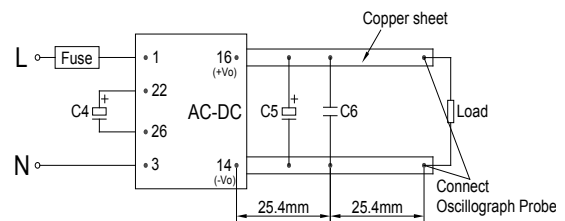
$\frac{A}{A} \frac{X}{B} \frac{003}{C} - \frac{S}{D} \frac{05}{E}$

A: Series
B: Package (C, D, E)
C: Output Watt
D: Single Output
E: Output Voltage

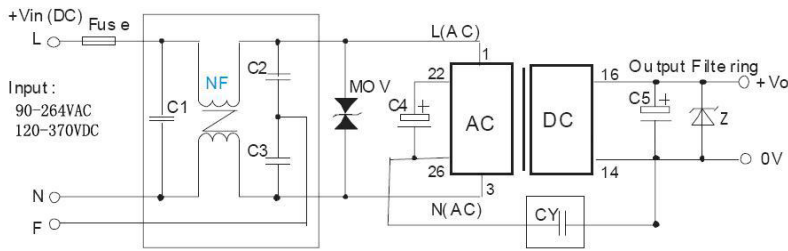
Temperature Derating Graph



Ripple Testing Demonstration



Typical Application Circuit

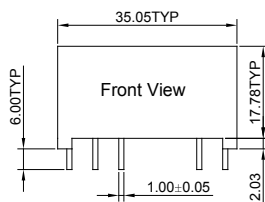


Typical Application Guide

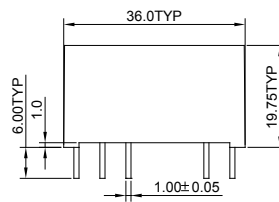
AC/DC Application

1. Recommended Circuit: Typical application circuit is shown as Figure 1. If EMC performance is not required, circuit in frame of dashed line can be removed.
2. Clearance and creepage: for application Environment of Class I and Class II devices, users should guarantee there is clearance no less than 2mm and creepage no less than 2.5mm between L and N before the fuse.
3. Fuse, 1A/250V or 10Ω/2W wire-wound resistor.
4. Input filtering capacitor. Terminals 22 and 26 are internal rectification and filtering terminals. To protect the models further, it is recommended to connect an electrolytic capacitor C4 (it is recommended to be 4.7uF/400V). If operation voltage of the module is between 160~264VAC, C4 can be removed.
5. Input EMI filtering network (Refer to Figure 1). Combination of NF, C1, C2 and C3 form input EMI filtering network.
MOV: pressure sensitive resistor, model 471KD07
C1: X2 capacitor, recommended parameter 0.1uF/275V
CY: 102K/400V (Y1 CAP)
NF: common model choke, UU9.8 or ring core, inductance is about 10mH, wire diameter 0.22mm.
6. Output filtering capacitor C5 is electrolytic capacitor. To make sure the product works at perfect operation status, use of a full loading external capacitor is necessary, and it is recommended to use a high frequency low resistance electrolytic capacitor. C5 rated voltage must be 1.2 times greater than output voltage. Please refer to manufacturer's datasheet for capacitance and current parameters.
7. "Z" is a TVS to protect post circuits (when module works incorrectly), is recommended.
8. Refer to ripple testing demonstration, C6 is recommended to be 0.1uF.

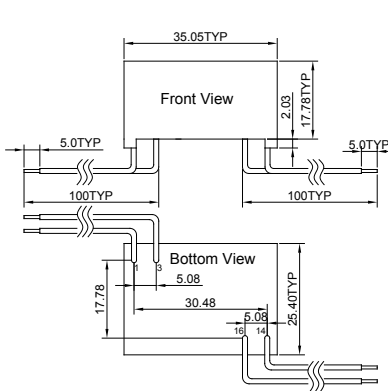
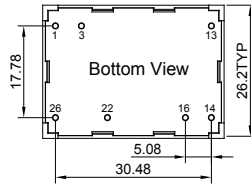
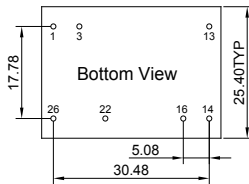
Markings and Dimensions



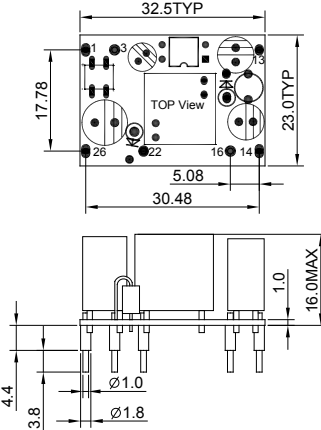
GA003



GA003-SXXB



GC003



GB003

UNIT: mm unless otherwise specified, all tolerances are ±0.50

Application Notes

1. Please make sure all terminals are connected in accordance with instruction manual.
2. The module is a sort of electronic component, installing and using should be implemented by professionals.
3. This series of power module is a sort of first level power supply, safety standards must be strictly abided in application.
4. Make sure the input of module is connected with a fuse, to meet the requirement of safety standards. The parameters of fuse should be appropriate.
5. The input and output of module are dangerous energies, and it must be guaranteed that end users will not be able to touch them.
6. Application circuits and parameters are for reference only. They should be confirmed by experiment before a circuit design is finished.
7. Check live datasheet link for updates to this document.
8. This product can not be used in parallel and can not support hot-plug.

PIN Connection

PIN	1	3	13	14	16	22	26
GA003/GB003(B)	L	N	NC	-Vout	+Vout	+Vin(DC)	-Vin(DC)
GC003	L(White)	N(Black)		-Vout(Blue)	+Vout(Red)		

FEATURES:

- Universal Input: 90~264VAC
- High Efficiency Up To 82%
- Protection: Short Circuit/Overload/Overvoltage
- Internal Input Filter
- RoHS Compliant

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 (Note2)	(% TYP)
AC005-S03	4	3.3	1200	100	72
AC005-S05	5	5	1000	100	75
AC005-S06	5.1	6	850	100	75
AC005-S09	5.4	9	600	100	78
AC005-S12	6	12	500	100	80
AC005-S15	6	15	400	150	80
AC005-S24	6	24	250	240	82
AD005-S05	5	5	1000	100	75
AD005-S12	6	12	500	100	80
AD005-S24	6	24	250	240	82

Notes:

1. 2nd Character in Part Number:

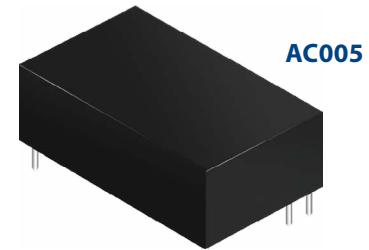
- C: Represents module version with enclosure
- D: Represents open frame version without enclosure
- E: Represents wired version with enclosure

2. 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 AX005 SERIES

5Watt
3KV Isolated
Single Output
Module



Input Specifications

Parameters	Conditions	Min	Typ	Max	Units
Rated Input Voltage	Vo, lo nom		100~240		Vac
Voltage Range	Vo, lo nom	AC in	90	264	Vac
		DC in	120	370	Vdc
Line Frequency	Vi nom, lo nom	47	50/60	63	Hz
Inrush Current	lo nom	Vi:115VAC		10	A
		Vi:230VAC		20	A
Input Current (Full Load)		110mA Max.(115VAc) 70mA Max.(230VAc)			
Input Fuse		VDE/UL/CCC FUSE 2.5A/250V (Slow blow).			

Output Specifications

Parameters	Conditions	Min	Typ	Max	Units
Output Voltage Accuracy	Vi nom, Io nom	3.3V, 5V Models		±3	%
		12...48V Models		±2	%
Minimum Load	Vi nom	0			%
Line Regulation	Io nom, Vi min...Vi max		±1		%
Load Regulation	Vi nom, Io min...Io nom		±2		%
Transient Recovery Time	Vi nom, Io nom = ← → 0.5 Io nom		1000		us
Protection	Overload	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	120%-150% rated output Voltage Protection type: Zener diode clamp			

General Specifications

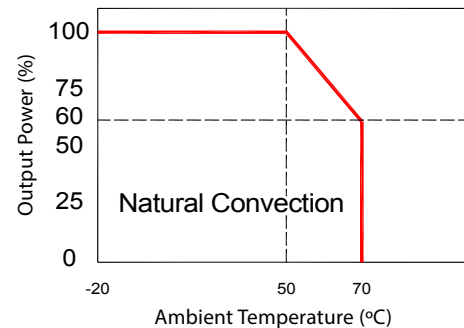
Parameters	Conditions	Min	Typ	Max	Units
Switching Frequency	Vi nom, Io nom		65		KHz
Isolation Voltage	Input / Output	3.0kVac/ 5mA/5Secs			
Isolation Resistance	Input / Output, @500 Vdc	100			MΩ
Ambient Temperature	Operating at Vi nom, Io nom	-20		+70	°C
Derating	Vi nom, Io nom +51 to 71°C			2	%/°C
Storage Temperature	Non Operational	-40		+85	°C
Relative Humidity	Vi nom, Io nom			95	% RH
Dimensions	GA005/GC005 L50.80 x W25.40 x H17.02, GB005 L48.5 x W23.0 x H16.0				mm
Cooling	Free air convection				

Part Number

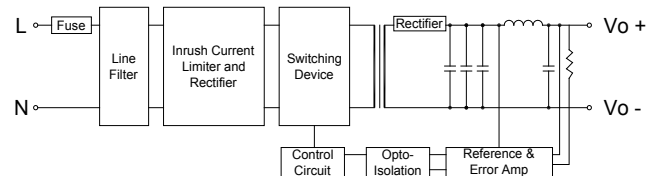
$\frac{A}{A} \frac{X}{B} \frac{005}{C} - \frac{S}{D} \frac{05}{E}$

A: Series
B: Package (C, D, E)
C: Output Watt
D: Single Output
E: Output Voltage

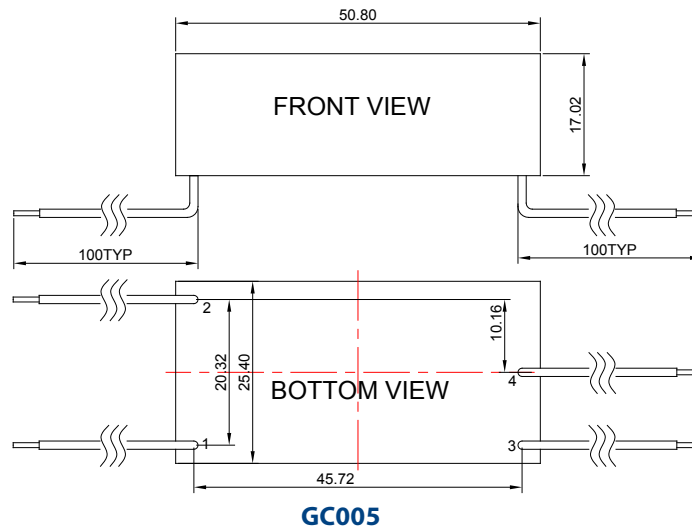
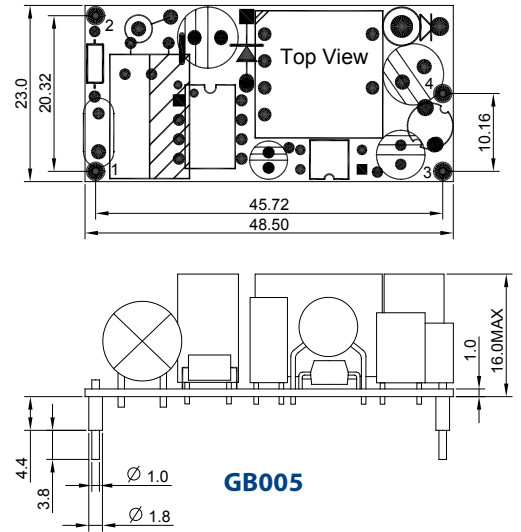
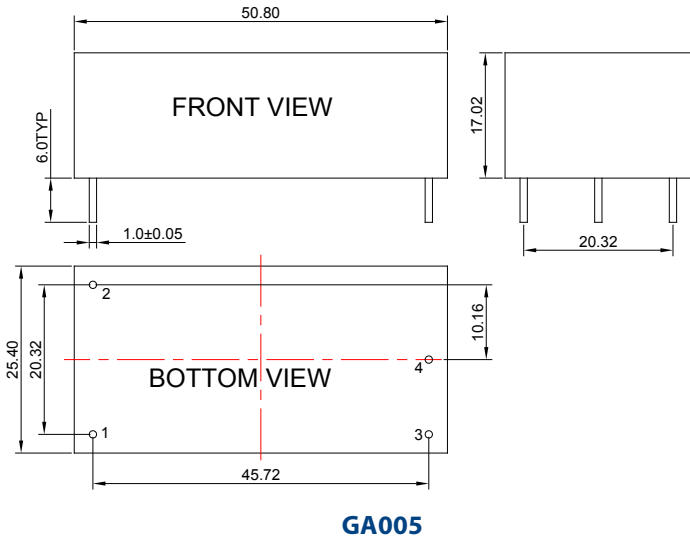
Temperature Derating Graph



Circuit Schematic



Markings and Dimensions



UNIT: mm unless otherwise specified, all tolerances are ± 0.50

PIN Connection

PIN	1	2	3	4
GA005/GB005	ACN	ACL	+Vo	-Vo
GC005	ACN (Black)	ACL (White)	+Vo (Red)	-Vo (Blue)

FEATURES:

- Universal Input: 90~264VAC
- High Efficiency Up To 82%
- Protection: Short Circuit/Overload/Overvoltage
- Fully Encapsulated Plastic Case
- Internal Input Filter
- RoHS Compliant

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)
AC010-D05	10	±5	±1000	100	75
AC010-D12	12	±12	±500	150	75
AC010-D15	12	±15	±400	150	75
AC010-D24	12	±24	±250	240	77
AC010-S03	10	3.3	3000	100	74
AC010-S05	10	5	2000	100	76
AC010-S12	12	12	1000	150	80
AC010-S15	12	15	800	150	80
AC010-S24	12	24	500	240	80

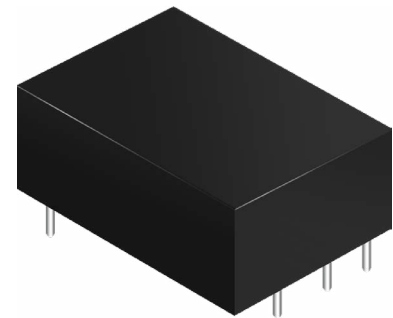
Note:

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.



AC-DC Converter AC010 SERIES

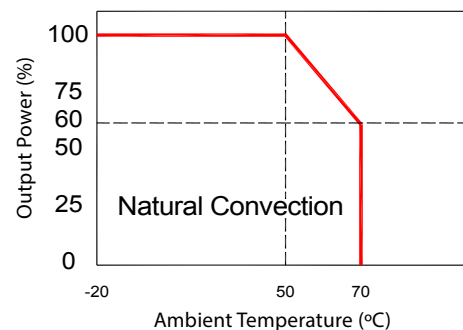
10Watt
3KV Isolated
Single & Dual Output
Module



Input Specifications

Parameters	Conditions	Min	Typ	Max	Units	
Rated Input Voltage	Vo, lo nom	100~240			Vac	
Voltage Range	Vo, lo nom	AC in	90	264	Vac	
		DC in	120	370	Vdc	
Line Frequency	Vi nom, lo nom	47	50/60	63	Hz	
Inrush Current	Io nom	Vi:115VAC			10	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, 5V Models		±3	%
		12...48V Models		±2	%
		Dual Output		±5	%
Minimum Load	Vi nom	Single Output Models	0		%
		Dual Output Models (each output)	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		µS
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	120%-150% rated output Voltage			Protection type: Zener diode clamp

Note:

Ripple & noise is measured by using 20 MHz bandwidth, measured with a 47µf paralleled with a high-frequency 0.47µf 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
Operating Temperature	Refer to Temperature Derating Graph	-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		EN60950-1 approved			
EMI Conduction & Radiation		Compliance to EN55022			
EMS Immunity		Compliance to EN55024			
Dimensions		L63.50x W44.45 x H19.05mm, L2.5x W1.75 x H0.75 inches			
Cooling		Free air convection			

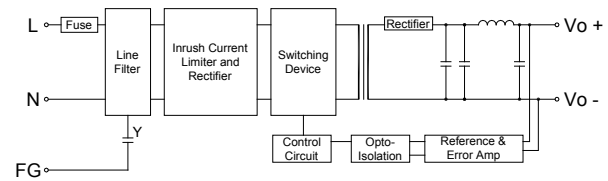
Part Number

AC010 - S 03
A B C

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

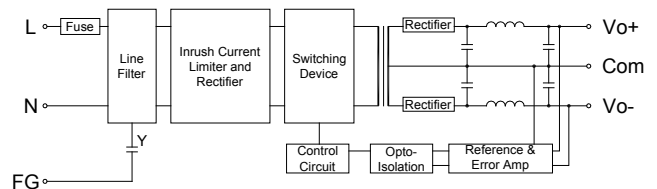
Circuit Schematic (1)

Single Output



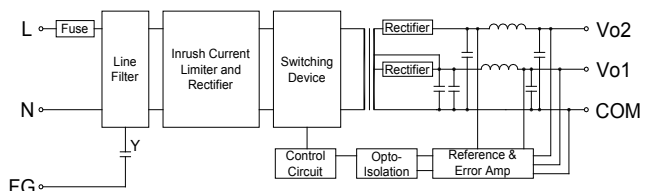
Circuit Schematic (2)

Dual Output

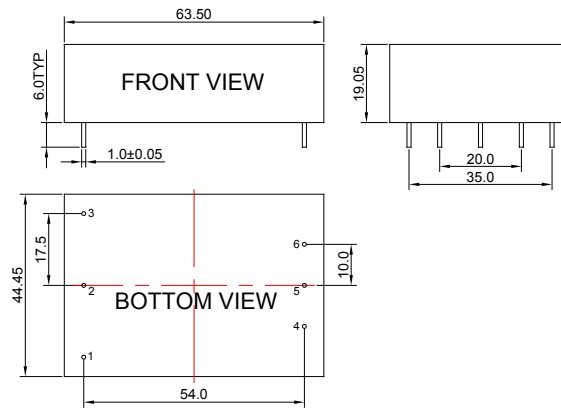


Circuit Schematic (3)

Dual Output



Markings and Dimensions



UNIT: mm
Unless otherwise specified, all tolerances are ±0.50.

PIN Connection

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

FEATURES:

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

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

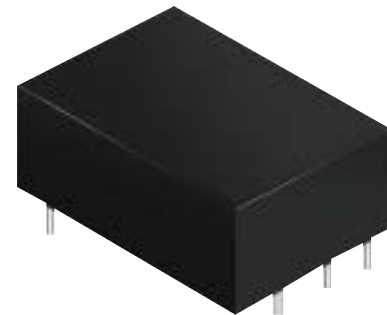
Note:

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.



AC-DC Converter AC025 SERIES

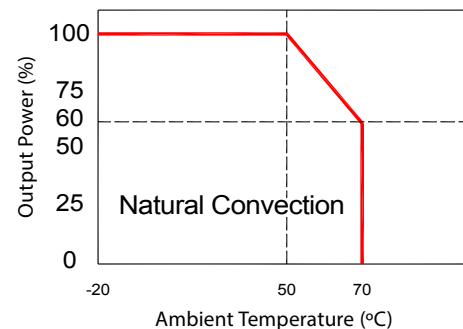
25Watt
3KV Isolated
Single & Dual Output
Module



Input Specifications

Parameters	Conditions	Min	Typ	Max	Units
Rated Input Voltage	Vo, lo nom		100~240		Vac
Voltage Range	Vo, lo nom	AC in	90	264	Vac
		DC in	120	370	Vdc
Line Frequency	Vi nom, lo 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	%
Minimum Load	Vi nom	Dual Output		±5	%
		Single Output Models	0		%
Line Regulation	Io nom, Vi min...Vi max			±1	%
		Single Output Models		±2	%
Load Regulation	Io min~ Io nom	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			
	Short circuit	Recovery type: 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

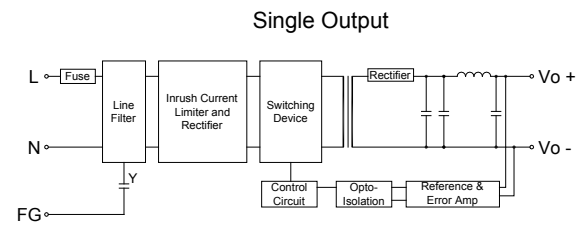
Parameters	Conditions	Min	Typ	Max	Units
Switching Frequency	Vi nom, Io nom		65		KHz
Isolation Voltage	Input / Output	3KVac/ 5mA/5Secs			
Isolation Resistance	Input / Output, @500 Vdc	100			MΩ
Operation Temperature	Operating at Vi nom, Io nom	-20		+70	°C
Derating	Vi nom, Io nom+51 to 71°C			2	%/°C
Storage 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

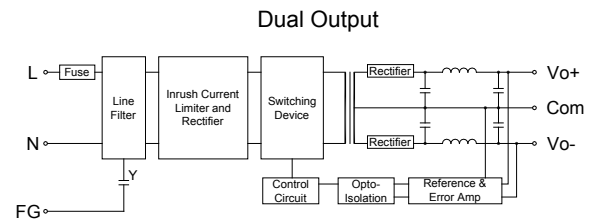
AC025 - D 05
A B C

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

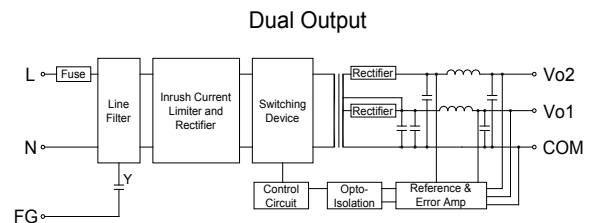
Circuit Schematic (1)



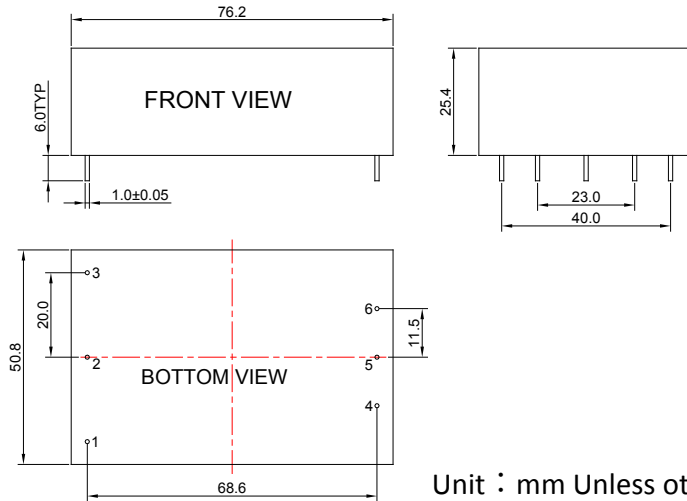
Circuit Schematic (2)



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

FEATURES:

- Universal Input: 90~264VAC
- High Efficiency Up To 88%
- Protection: Short Circuit/Overload/Overvoltage
- Fully Encapsulated Plastic Case
- Internal Input Filter
- RoHS Compliant

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)
AC030-D12	42	±12	±1750	150	80
AC030-S05	40	5	8000	150	75
AC030-S12	42	12	3500	150	84
AC030-S24	42	24	1750	240	86
AC030-S48	48	48	1000	240	88

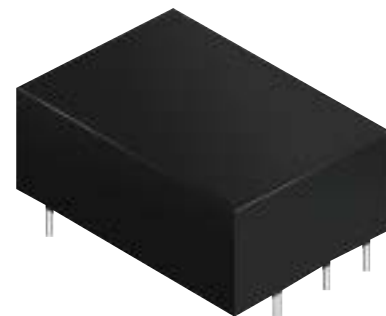
Note:

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.



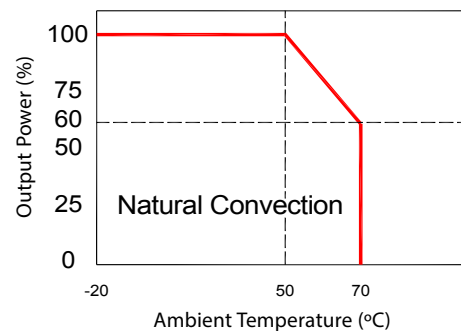
AC-DC Converter AC030 SERIES

26~48Watt
3KV Isolated
Single & Dual Output
Module



Input Specifications					
Parameters	Conditions	Min	Typ	Max	Units
Rated Input Voltage	Vo, lo nom		100~240		Vac
Voltage Range	Vo, lo nom	AC in	90	264	Vac
		DC in	120	370	Vdc
Line Frequency	Vi nom, lo 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...9V Models		±3	%
		10...48V Models		±2	%
Minimum Load	Dual Output			±5	%
	Vi nom	Single Output Models		0	%
Line Regulation	Io nom, Vi min...Vi max			±1	%
	Load Regulation	Io min~	Single Output Models		±2
		Io nom	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	L88.90x W63.50 x H31.75mm L3.5x W2.5 x H1.25 inches				
Cooling	Free air convection				

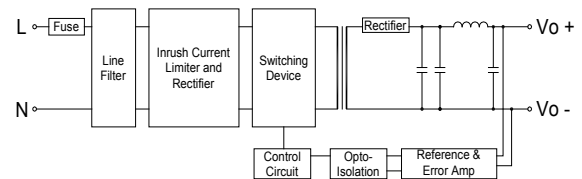
Part Number

AC030 - S 05
A B C

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

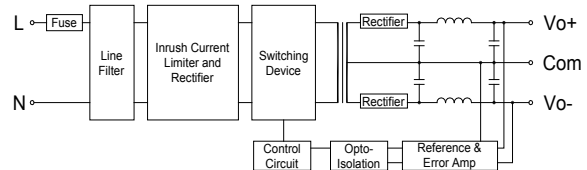
Circuit Schematic (1)

Single Output



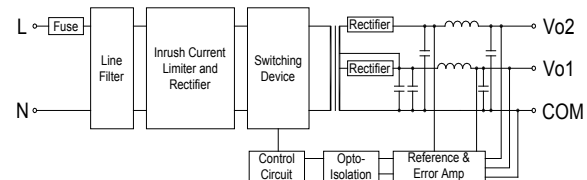
Circuit Schematic (2)

Dual Output

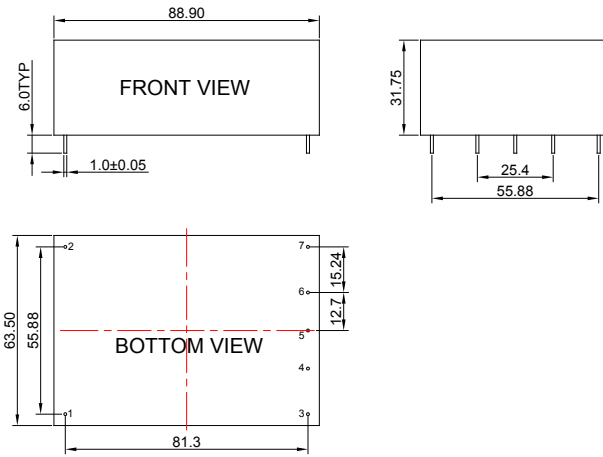


Circuit Schematic (3)

Dual Output



Markings and Dimensions



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

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

FEATURES:

- Universal Input: 90~264VAC
- High Efficiency Up To 80%
- Protection: Short Circuit/Overload
- Internal Input Filter
- RoHS Compliant

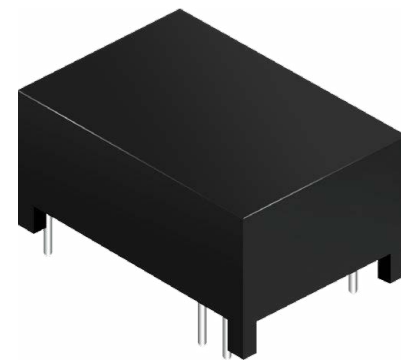


AC-DC Converter AC5A SERIES

5-6Watt
3KV Isolated
Single Output
Module

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)
AC5A-S03	3.3	3.3	1000	150	70
AC5A-S05	5	5	1000	150	70
AC5A-S06	5	6	830	150	70
AC5A-S12	6	12	500	150	75
AC5A-S14	6	14	430	150	76
AC5A-S18	6	18	335	150	78
AC5A-S24	6	24	250	240	78
AC5A-S48	6	48	125	240	80



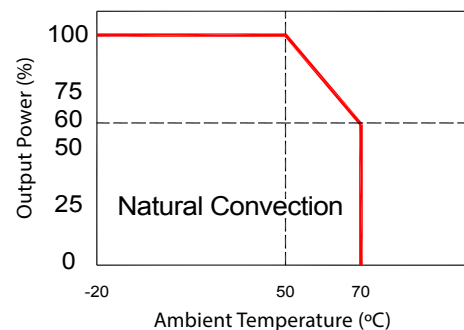
Note:

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.

Input Specifications

Parameters	Conditions	Min	Typ	Max	Units
Rated Input Voltage	Vo, lo nom		100~240		Vac
Input Voltage Range	Vo, lo nom	AC in	90	264	Vac
		DC in	120	370	Vdc
Line Frequency	Vi nom, lo nom	47	50/60	63	Hz
Inrush Current	lo nom	Vi:115VAC		10	A
		Vi:230VAC		18	A
Leakage Current				0.25	mA
Input Current (Full Load)		130mA Max.(115Vac) 80mA Max.(230Vac)			
External Fuse (Recommend)		VDE/UL/CCC FUSE 1.0A/250V (Slow blow)			

Temperature Derating Graph



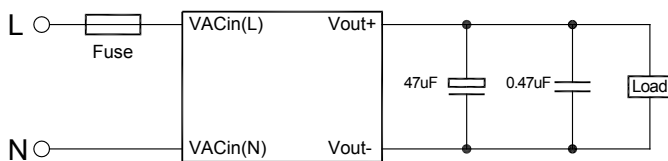
Output Specifications

Parameters	Conditions	Min	Typ	Max	Units
Output Voltage Accuracy	V_i nom, lo nom			±2	%
Minimum Load	V_i nom	0			%
Line Regulation	lo nom, V_i min... V_i max		±0.2		%
Load Regulation	V_i nom, lo min...lo nom		±0.1		%
		3.3V Models			
			±0.5		%
	5...48V Models				
Transient Recovery Time	V_i nom, lo nom = ← → 0.5 lo nom		1000		µS
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			

General Specifications

Parameters	Conditions	Min	Typ	Max	Units
Switching Frequency	V_i nom, lo nom		100		KHz
Isolation Voltage	Input / Output		3KVac/ 5mA/5Secs		
Isolation Resistance	Input / Output, @500 Vdc	100			MΩ
Operating Temperature	Refer to Temperature Derating Graph	-40		+70	°C
Storage Temperature	Non Operational	-40		+85	°C
Relative Humidity	V_i nom, lo nom			95	% RH
Safety Standards	Design refer to UL60950-1, IEC60950-1				
Dimensions	L35.0 x W25.4 x H17.8 mm				
Cooling	Free air convection				

Recommended Application Circuit



Note:

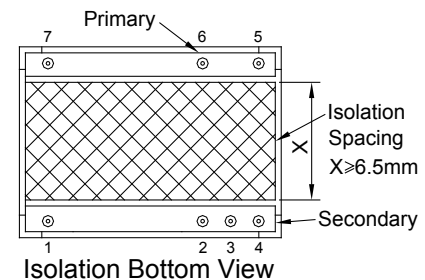
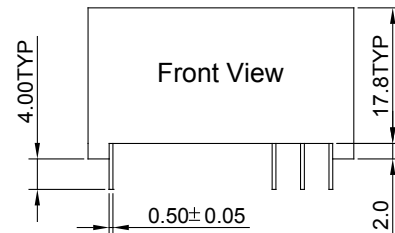
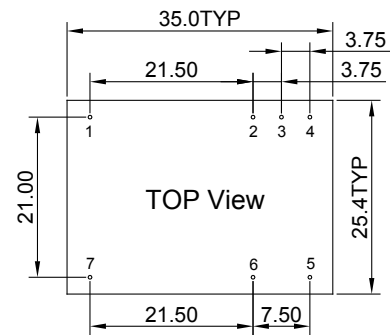
1. Fuse: 1A/250V (Slow blow)
2. Ripple & noise is measured by using 20 MHz bandwidth, measured with a 47µF paralleled with a high-frequency 0.47µF capacitor across each output by full load.

Part Number

$\frac{AC5A}{A} - \frac{S}{B} \frac{05}{C}$

- A: Series
B: Single Output
C: Output Voltage

Markings and Dimensions



UNIT: mm
Unless otherwise specified, all tolerances are ±0.5.

PIN Connection

PIN	1	2	3	4	5	6	7
GA5A	NC	+Vo	-Vo	NC	L	N	NC

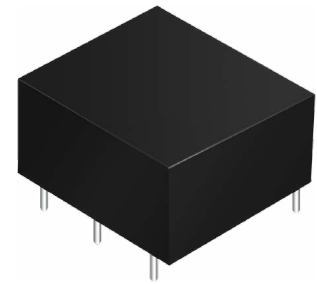
FEATURES:

- Ultra Compact Size 1.0" x 1.0" x 0.64" Package
- Universal Input: 90~264VAC
- High Efficiency Up To 85%
- Protection: Short Circuit/Overload/Overvoltage
- Fully Encapsulated Plastic Case
- UL/cUL/IEC/EN60950-1, 62368-1 Approved
- EMC Standard of EMI EN55032:2015 Approved
- EMC Standard of EMS EN55024:2010 Approved
- RoHS Compliant



AC-DC Converter AC5E SERIES

1~5Watt
3KV Isolated
Single Output
1" x 1" Package Module



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	Max. Capacitive Load
	(W)	(V)	(mA)	(mV) Max (Note)	(% TYP)	μF
AC5E-S03	5	3.3	1515	60	73	2200
AC5E-S04	5	4	1250	60	74	1600
AC5E-S05	5	5	1000	60	80	1000
AC5E-S09	5	9	555	90	81	300
AC5E-S12	5	12	416	120	81	160
AC5E-S15	5	15	333	150	82	100
AC5E-S24	5	24	208	240	82	43
AC5E-S48	5	48	104	480	84	10

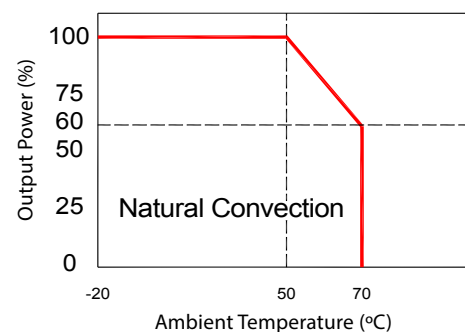
Note:

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.

Input Specifications

Parameters	Conditions	Min	Typ	Max	Units
Rated Input Voltage	Vo, lo nom		100~240		Vac
Voltage Range	Vo, lo nom	AC in	90	264	Vac
		DC in	120	370	Vdc
Line Frequency	Vi nom, lo nom	47	50	63	Hz
Inrush Current	lo nom	Vi:115VAC		5	A
		Vi:230VAC		10	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, lo nom			±3	%
	3.3...5V Models				
	9...48V Models			±2	%
Minimum Load	Vi nom	0			%
Line Regulation	lo nom, Vi min...Vi max			±1.0	%
Load Regulation				±1.0	%
Transient Recovery Time	Vi nom, lo nom = ← → 0.5 lo nom		1000		µS
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	120%-150% rated output Voltage Protection type: Zener diode clamp			

Note:

Ripple & noise is measured by using 20 MHz bandwidth, measured with a 10µf paralleled with a high-frequency 0.47µf capacitor across each output by full load.

General Specifications

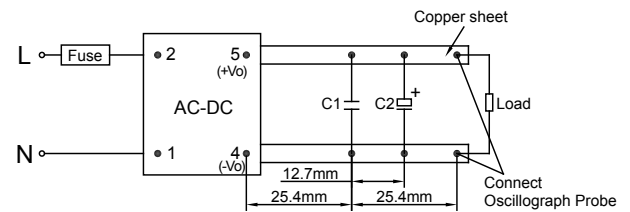
Parameters	Conditions	Min	Typ	Max	Units
Switching Frequency	Vi nom, lo nom		65		KHz
Isolation Voltage	Input / Output		3KVac/ 5mA/5Secs		
Isolation Resistance	Input / Output, @500 Vdc	100			MΩ
Operating Temperature	Refer to Temperature Derating Graph	-25		+70	°C
Storage Temperature	Non Operational	-40		+85	°C
Relative Humidity	Vi nom, lo nom			95	% RH
Safety Standards	UL 62368-1, IEC 62368-1 approved				
EMI Conduction & Radiation	Compliance to EN55032, CLASS B				
EMS Immunity	Compliance to EN61000				
Dimensions	L25.4 x W25.4 x H16.1 mm				
Cooling	Free air convection				

Part Number

AC5E - $\frac{S}{A}$ $\frac{05}{B}$ $\frac{05}{C}$

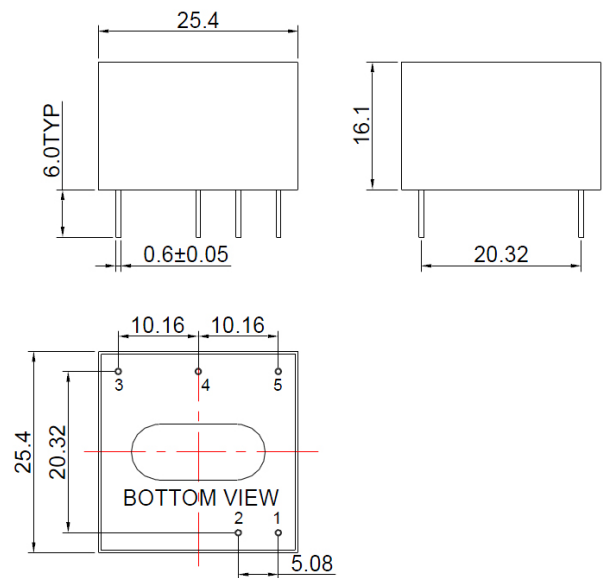
A: Series
B: Single Output
C: Output Voltage

Parallel Line Measurements



C1: Ceramic capacitor, 1µF; C2: Electrolytic capacitor, 10µF

Markings and Dimensions



UNIT: mm
Unless otherwise specified, all tolerances are ±0.50.

PIN Connection

PIN	1	2	3	4	5
GASE	ACN	ACL	NC	-Vo	+Vo

FEATURES:

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



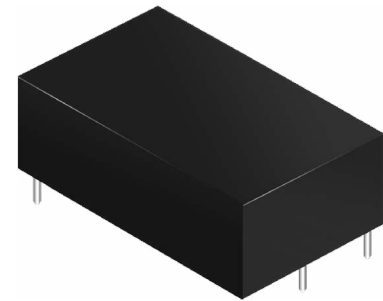
Specifications typical at TA=25°C nominal input voltage and rated output current unless otherwise specified

Part Number	Output Wattage	Output Voltage	Output Current	Ripple & Noise	Efficiency
	(W)	(V)	(mA)	(mV) Max (Note)	(% TYP)
AC10D-S03	6.6	3.3	2000	150	72
AC10D-S05	10	5	2000	150	75
AC10D-S12	12	12	1000	150	82
AC10D-S15	12	15	800	150	82
AC10D-S24	12	24	500	150	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.

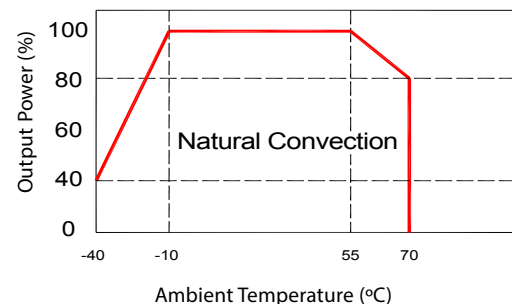
AC-DC Converter AC10D SERIES 10~12Watt 4KV Isolated Single Output Module



Input Specifications

Parameters	Conditions	Min	Typ	Max	Units
Rated Input Voltage	Vo, lo nom	100~240			Vac
Voltage Range	Vo, lo nom	AC in	90	264	Vac
		DC in	120	370	Vdc
Line Frequency	Vi nom, lo nom	47	50/60	63	Hz
Inrush Current	lo nom	Vi:115VAC		10	A
		Vi:230VAC		20	A
Input Fuse	VDE/UL/CCC FUSE 2.5A/250V (Slow blow)				

Temperature Derating Graph



Output Specifications

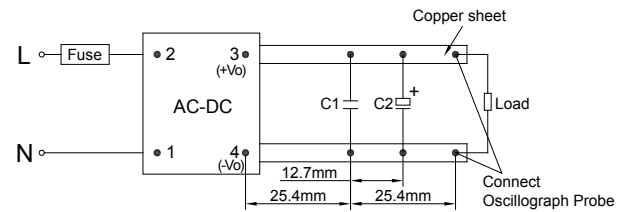
Parameters	Conditions	Min	Typ	Max	Units
Output Voltage Accuracy	Vi nom, lo nom	3.3...5V Models		±3	%
	lo nom	10...48V Models		±2	%
Minimum Load	Vi nom	0			%
Line Regulation	lo nom, Vi min...Vi max		±0.2		%
Load Regulation	Vi nom, lo min...lo nom	3.3V Models		±1.0	%
	lo nom	5...48V Models		±0.5	%
Transient Recovery Time	Vi nom, lo nom = ← → 0.5 lo nom		1000		µS
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			

Part Number

AC10D - $\frac{S}{B}$ $\frac{03}{C}$

A: Series
B: Single Output
C: Output Voltage

Parallel Line Measurements

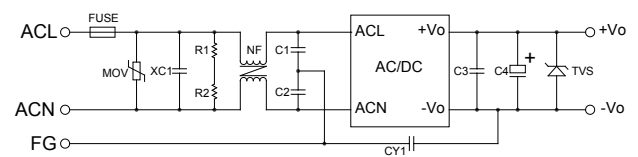


C1: Ceramic capacitor, 1µF; C2: Electrolytic capacitor, 10µF

General Specifications

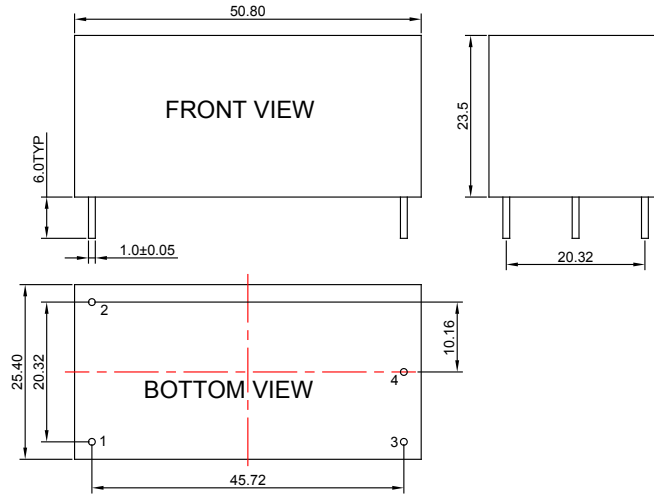
Parameters	Conditions	Min	Typ	Max	Units
Switching Frequency	Vi nom, lo nom		65		KHz
Isolation Voltage	Input / Output		4KVac/ 5mA/5Secs		
Isolation Resistance	Input / Output, @500 Vdc	100			MΩ
Operating Temperature	Refer to Temperature Derating Graph	-40		+70	°C
Storage Temperature	Non Operational	-40		+105	°C
Relative Humidity	Vi nom, lo nom			95	% RH
Safety Standards	Design refer to UL60950-1, IEC60950-1				
EMI Conduction & Radiation	EN55022, CLASS B (See Fig. 1 for recommended circuit)				
EMS Immunity	EN61000 (See Fig. 1 for recommended circuit)				
Dimensions	L50.8 x W25.4 x H23.5 mm				
Cooling	Free air convection				

EMC Solution-Recommended Circuit



NOTE:
MOV: 14D-561K
XC1: 0.47µF/275V, X2
R1\R2: 750K, 1206
NF: UU9.8, 20mH
C1\C2: 2200pF/250V, Y2

Markings and Dimensions



UNIT: mm
Unless otherwise specified, all tolerances are ±0.50.

PIN Connection

PIN	1	2	3	4
GA10D	ACN	ACL	+Vo	-Vo

FEATURES:

- Universal Input: 90~264VAC
- High Efficiency Up To 88%
- Protection: Short Circuit/Overload/Overvoltage
- Internal Input Filter
- RoHS Compliant



AC-DC Converter

AD60A SERIES

60Watt

3KVac Isolated

Single Output

Open Frame

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)
AD60A-S12	60	12	5000	150	85

Note:

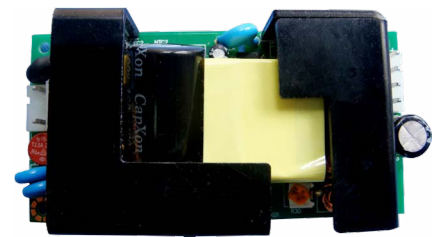
Ripple & noise is measured by using 20 MHz bandwidth, measured with 47uF paralleled with a high-frequency 0.47uF capacitor across each output by full load.

Input Specifications

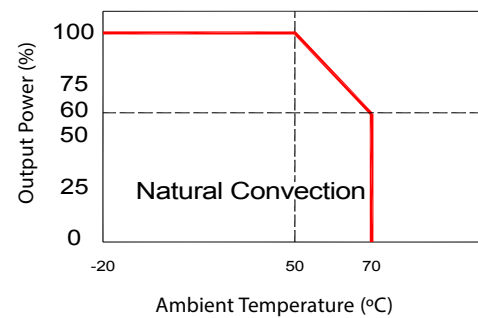
Parameters	Conditions	Min	Typ	Max	Units
Rated Input Voltage	Vo, lo nom	100~240			Vac
Voltage Range	Vo, lo nom	90		264	Vac
Line Frequency		47	50/60	63	Hz
Inrush Current	Vi:115VAC			20	A
	Vi:230VAC			40	A
Input Fuse	VDE/UL/CCC FUSE 3.15A/250V				

Output Specifications

Parameters	Conditions	Min	Typ	Max	Units
Output Voltage Accuracy	Vi nom, lo nom (Single Output)	3.3V, 5V Models		±3	%
		12...48V Models		±2	%
Minimum Load	Vi nom	0			%
Line Regulation	lo nom, Vi min...Vi max		±1		%
Load Regulation	Vi nom, lo min...lo nom		±2		%
Protection	Overload	Above 115%-150% 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: Shut off o/p voltage, re-power on to recover			



Temperature Derating Graph



General Specifications

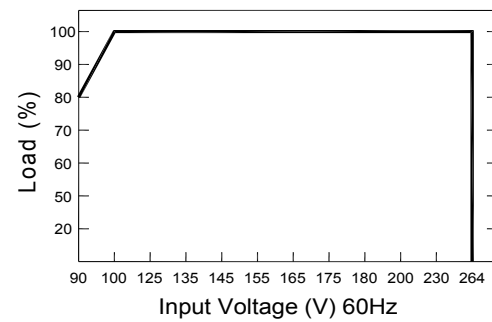
Parameters	Conditions	Min	Typ	Max	Units
Switching Frequency	Vi nom, lo nom		65		KHz
Isolation Voltage	Input / Output		3KVac/ 5mA/5Secs		
Isolation Resistance	Input / Output, @500 Vdc	100			MΩ
Operating Temperature	Operating at Vi nom, lo nom	-20		+70	°C
Derating	Vi nom, lo nom+51 to 71 °C			2	%/ °C
Storage Temperature	Non Operational	-40		+85	°C
Relative Humidity	Vi nom, lo nom			95	% RH
Safety Standards	EN 62368-1 approved				
EMI Conduction & Radiation	Design refer to EN55032				
EMS Immunity	Design refer to EN55024				
Dimensions	L101.60 x W50.80 x H31.0 mm				
Cooling	Free air convection				

Part Number

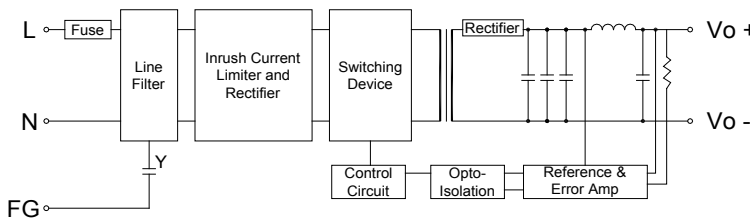
AD60A - $\frac{S}{B}$ $\frac{12}{C}$

A: Series
B: Single Output
C: Output Voltage

Output Derating VS Input Voltage

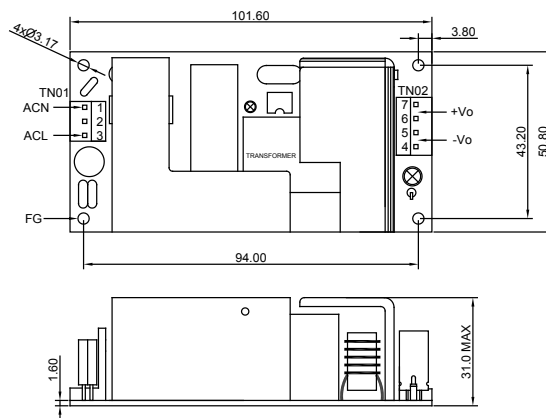


Circuit Schematic



Markings and Dimensions

AD60A-S12



UNIT: mm
Unless otherwise specified, all tolerances are ±0.50.

Notes:
For input connector mates, please consult with factory.
For output connector mates, please consult with factory.

TN01	Model
PIN	Single Output
1	ACN
2	No PIN
3	ACL
TN02	
4	-Vo
5	-Vo
6	+Vo
7	+Vo

FEATURES:

- Universal Input: 90~264VAC
- Efficiency at 75% Typical
- Protection: Short Circuit/Overload/Overvoltage
- Fully Encapsulated Plastic Case
- Internal Input Filter
- RoHS Compliant



AC-DC Converter AC025-S05

20 Watt
Single Output
AC/DC Power
Module Converter

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

Part Number	Output Wattage	Output Voltage	Output Current (mA)		Ripple & Noise	Efficiency
	(W)	(V)	Min	Max	(mV) Max (Note)	(% TYP)
AC025-S05	20	Vo=+5	0	4000	150	75

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.



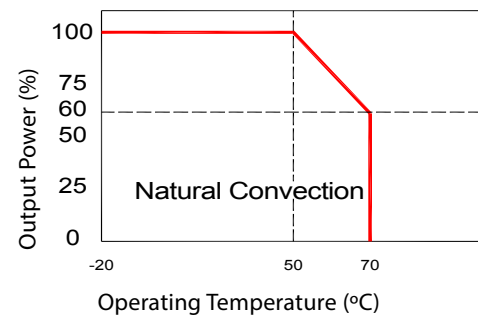
Input Specifications

Parameters	Conditions	Min	Typ	Max	Units
Rated Input Voltage	Vo, lo nom		100~240		Vac
Voltage Range	Vo, lo nom	AC in	90	264	Vac
		DC in	120	370	Vdc
Frequency		47	50/60	63	Hz
Input Current	Vo, lo nom			0.6	A
Inrush Current	At 115VAC			12	A
	At 230VAC			20	A
Input Fuse	VDE/UL/CCC FUSE 2.5A/250V (Slow blow)				

Output Specifications

Parameters	Conditions	Min	Typ	Max	Units
Output Voltage Accuracy	Vi nom, lo nom	Vo		±3	%
Minimum Load	Vi nom	0			%
Line Regulation	lo nom, Vi min...Vi max		±1		%
Load Regulation	Vi nom, lo min...lo nom	Vo	±2		%
Transient Recovery Time	Vi nom, lo nom = ← → 0.5 lo nom		1000		uS
Protection	Overload	Above 110% rated output power Protection type: Recovers automatically after fault condition is removed			
	Over Voltage	120%-150% rated output Voltage Protection type: Zener diode clamp			
		Short Circuit	Recovers automatically after fault condition is removed		

Temperature Derating Graph



General Specifications

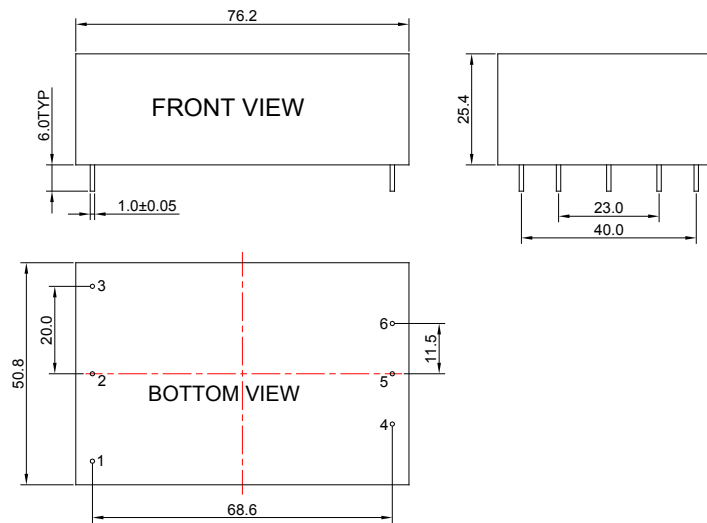
Parameters	Conditions	Min	Typ	Max	Units
Switching Frequency	Vi nom, Io nom		65		KHz
Isolation Voltage	Input / Output		3KVac/ 5mA/5Secs		
Isolation Resistance	Input / Output, @500 Vdc	100			MΩ
Operating Temperature	Operating at Vi nom, Io nom	-20		+70	°C
Derating	Vi nom, Io nom+51 to 71°C		2		%/°C
Storage Temperature	Non Operational	-40		+85	°C
Relative Humidity @ 40°C	Vi nom, Io nom			95	% RH
Safety Standards	EN62368-1, UL60950-1 approved				
EMI Conduction & Radiation	Design refer to EN55032				
EMS Immunity	Design refer to EN55024				
Dimensions	L76.2x W50.8 x H25.4				mm
Cooling	Free air convection				

Part Number

AC025 - S 05
A B C

A: Series
B: Single Output
C: Output Voltage

Markings and Dimensions



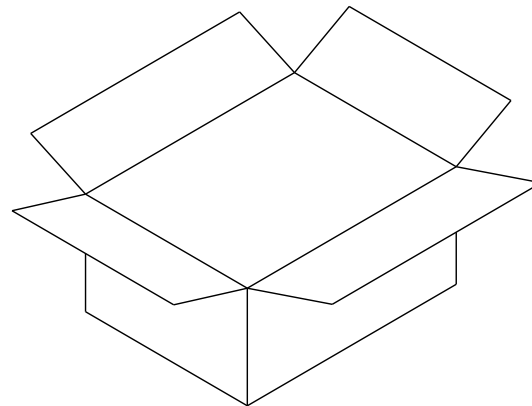
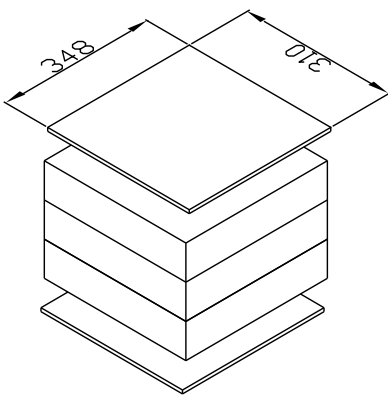
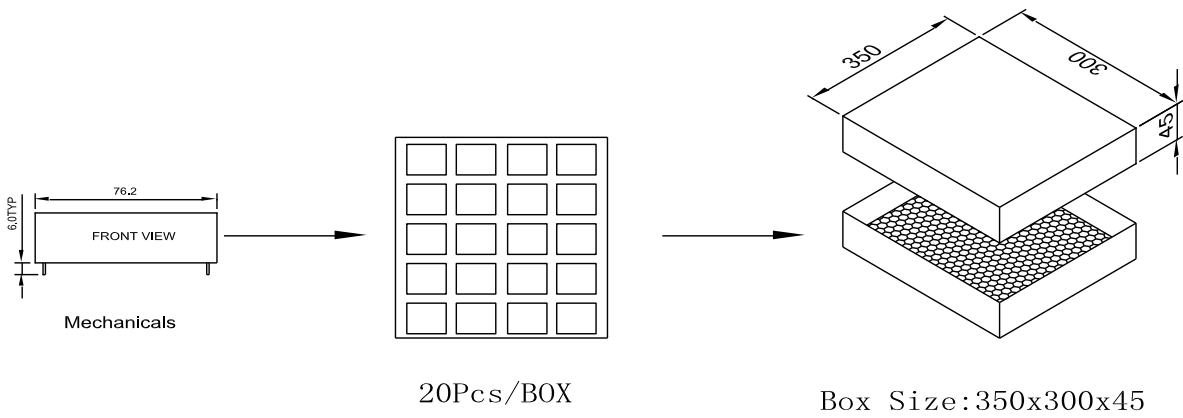
UNIT: mm Unless otherwise specified, all tolerances are ±0.50.

PIN Connection

PIN	1	2	3	4	5	6
Single	FG	ACN	ACL	-Vo	NO PIN	+Vo

Packaging

- 1. Weight: 170grams/pcs
- 2. Outer Carton Unit: 60pcs/box
- 3. Weight: 12.0kg per carton



Outer carton: 375x320x160mm

FEATURES:

- Universal Input: 90~264VAC
- Efficiency at 78% Typical
- Protection: Short Circuit/Overload/Overvoltage
- Fully Encapsulated Plastic Case
- Internal Input Filter
- RoHS Compliant



AC-DC Converter AC025-S06

24 Watt
Single Output
AC/DC Power
Module Converter

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

Part Number	Output Wattage	Output Voltage	Output Current (mA)		Ripple & Noise	Efficiency
	(W)	(V)	Min	Max	(mV) Max (Note)	(% TYP)
AC025-S06	24	Vo=+6	0	4000	150	78

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.



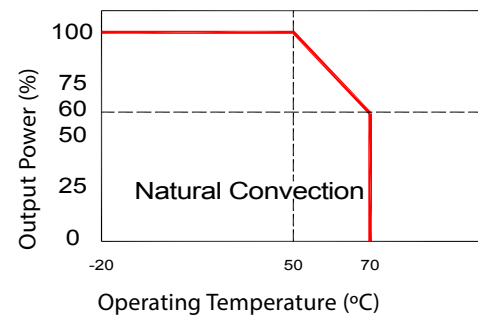
Input Specifications

Parameters	Conditions	Min	Typ	Max	Units
Rated Input Voltage	Vo, lo nom	100~240			Vac
Voltage Range	Vo, lo nom	AC in	90	264	Vac
		DC in	120	370	Vdc
Frequency		47	50/60	63	Hz
Input Current	Vo, lo nom	0.6			A
Inrush Current	At 115VAC	12			A
	At 230VAC	20			A
Input Fuse	VDE/UL/CCC FUSE 2.5A/250V (Slow blow)				

Output Specifications

Parameters	Conditions	Min	Typ	Max	Units
Output Voltage Accuracy	Vi nom, lo nom	Vo		±3	%
Minimum Load	Vi nom	0			%
Line Regulation	lo nom, Vi min...Vi max		±1		%
Load Regulation	Vi nom, lo min...lo nom	Vo	±2		%
Transient Recovery Time	Vi nom, lo nom ← → 0.5 lo nom		1000		uS
Protection	Overload	Above 110% rated output power Protection type: Recovers automatically after fault condition is removed			
	Over Voltage	120%-150% rated output Voltage Protection type: Zener diode clamp			
		Short Circuit	Recovers automatically after fault condition is removed		

Temperature Derating Graph



General Specifications

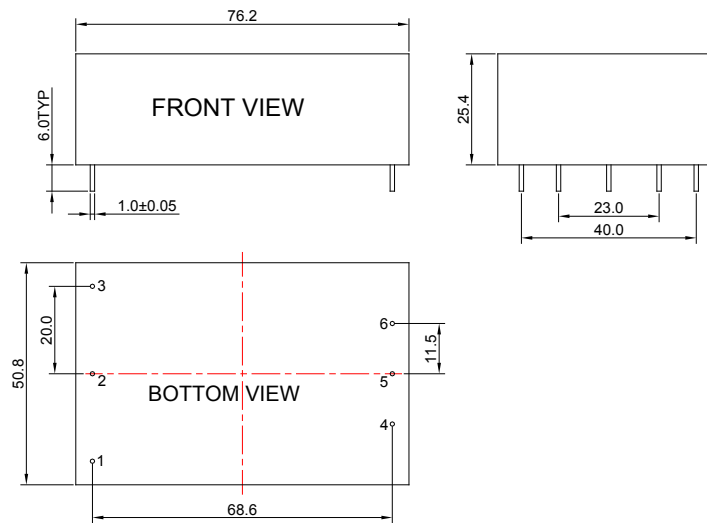
Parameters	Conditions	Min	Typ	Max	Units
Switching Frequency	Vi nom, Io nom		65		KHz
Isolation Voltage	Input / Output		3KVac/ 5mA/5Secs		
Isolation Resistance	Input / Output, @500 Vdc	100			MΩ
Operating Temperature	Operating at Vi nom, Io nom	-20		+70	°C
Derating	Vi nom, Io nom+51 to 71°C		2		%/°C
Storage Temperature	Non Operational	-40		+85	°C
Relative Humidity @ 40°C	Vi nom, Io nom			95	% RH
Safety Standards	EN60950-1 approved				
EMI Conduction & Radiation	Compliance to EN55032				
EMS Immunity	Compliance to EN55024				
Dimensions	L76.2x W50.8 x H25.4				mm
Cooling	Free air convection				

Part Number

AC025 - S 06
A B C

A: Series
B: Single Output
C: Output Voltage

Markings and Dimensions



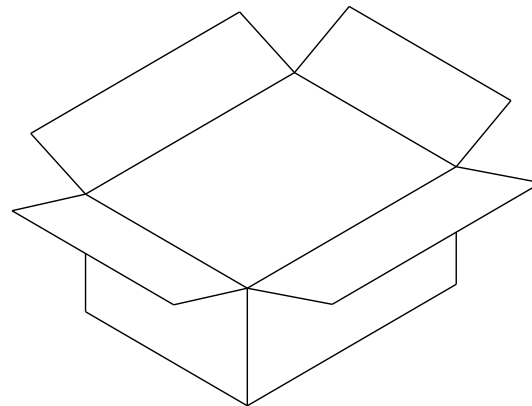
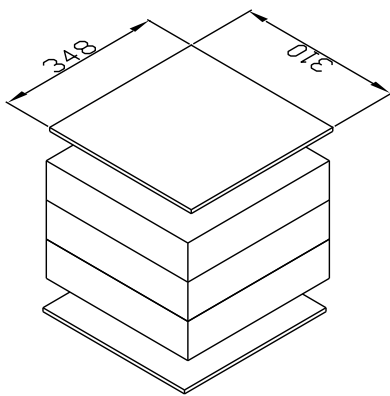
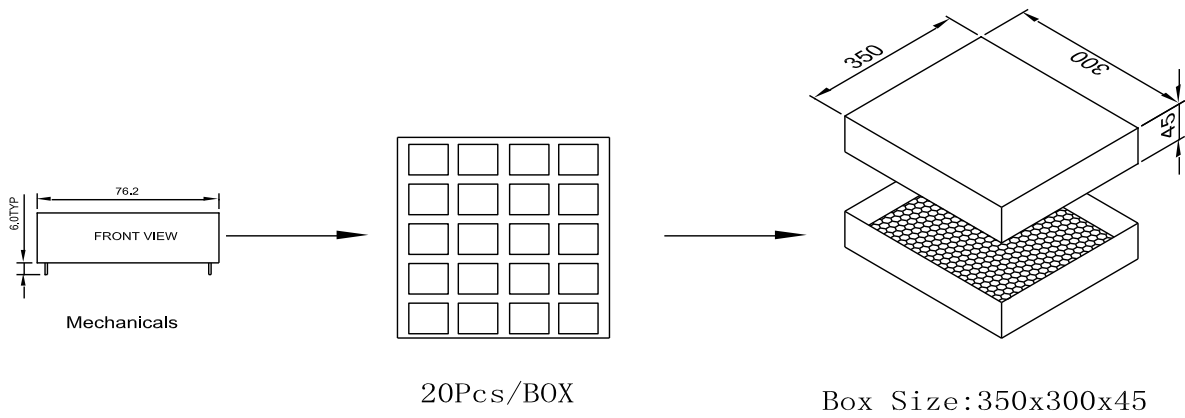
UNIT: mm Unless otherwise specified, all tolerances are ±0.50.

PIN Connection

PIN	1	2	3	4	5	6
Single	FG	ACN	ACL	-Vo	NO PIN	+Vo

Packaging

- 1. Weight: 170grams/pcs
- 2. Outer Carton Unit: 60pcs/box
- 3. Weight: 12.0kg per carton



Outer carton: 375x320x160mm

FEATURES:

- Universal Input: 90~264VAC
- Efficiency at 78% Typical
- Protection: Short Circuit/Overload/Overvoltage
- Fully Encapsulated Plastic Case
- Internal Input Filter
- RoHS Compliant



AC-DC Converter AC025-S09

22.5 Watt
Single Output
AC/DC Power
Module Converter

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

Part Number	Output Wattage	Output Voltage	Output Current (mA)		Ripple & Noise	Efficiency
	(W)	(V)	Min	Max	(mV) Max (Note)	(% TYP)
AC025-S09	22.5	Vo=+9	0	2500	150	78

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.



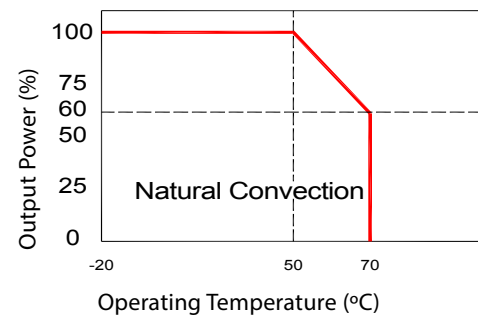
Input Specifications

Parameters	Conditions	Min	Typ	Max	Units
Rated Input Voltage	Vo, lo nom		100~240		Vac
Voltage Range	Vo, lo nom	AC in	90	264	Vac
		DC in	120	370	Vdc
Frequency		47	50/60	63	Hz
Input Current	Vo, lo nom			0.55	A
Inrush Current	At 115VAC			12	A
	At 230VAC			20	A
Input Fuse	VDE/UL/CCC FUSE 2.5A/250V (Slow blow)				

Output Specifications

Parameters	Conditions	Min	Typ	Max	Units
Output Voltage Accuracy	Vi nom, lo nom	Vo		±3	%
Minimum Load	Vi nom	0			%
Line Regulation	lo nom, Vi min...Vi max		±1		%
Load Regulation	Vi nom, lo min...lo nom	Vo	±2		%
Transient Recovery Time	Vi nom, lo nom = ← → 0.5 lo nom		1000		uS
Protection	Overload	Above 110% rated output power Protection type: Recovers automatically after fault condition is removed			
	Over Voltage	120%-150% rated output Voltage Protection type: Zener diode clamp			
		Short Circuit	Recovers automatically after fault condition is removed		

Temperature Derating Graph



General Specifications

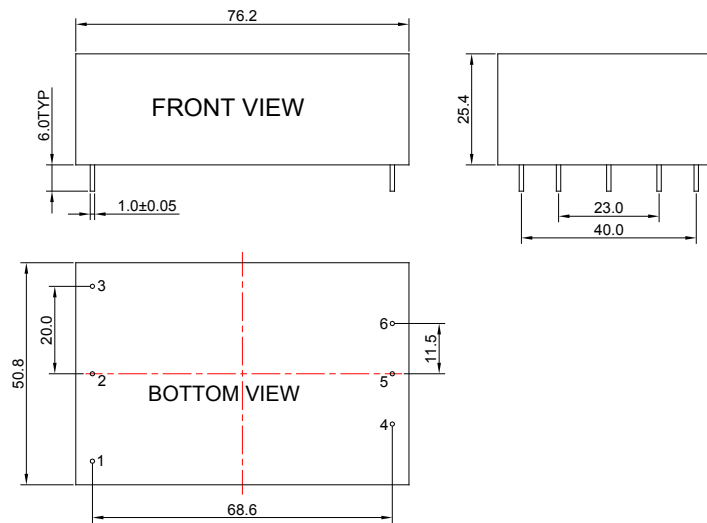
Parameters	Conditions	Min	Typ	Max	Units
Switching Frequency	Vi nom, Io nom		65		KHz
Isolation Voltage	Input / Output		3KVac/ 5mA/5Secs		
Isolation Resistance	Input / Output, @500 Vdc	100			MΩ
Operating Temperature	Operating at Vi nom, Io nom	-20		+70	°C
Derating	Vi nom, Io nom+51 to 71°C		2		%/°C
Storage Temperature	Non Operational	-40		+85	°C
Relative Humidity @ 40°C	Vi nom, Io nom			95	% RH
Safety Standards	EN60950-1 approved				
EMI Conduction & Radiation	Compliance to EN55032				
EMS Immunity	Compliance to EN55024				
Dimensions	L76.2x W50.8 x H25.4				mm
Cooling	Free air convection				

Part Number

AC025 - S 09
A B C

A: Series
B: Single Output
C: Output Voltage

Markings and Dimensions



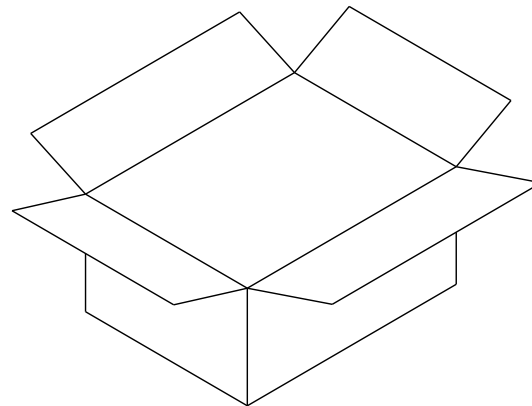
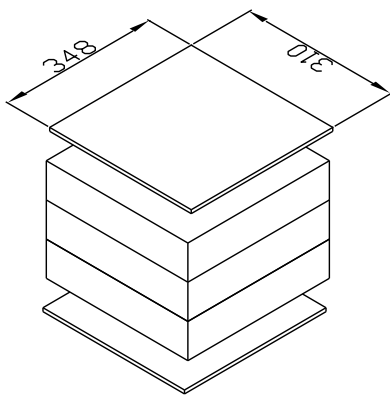
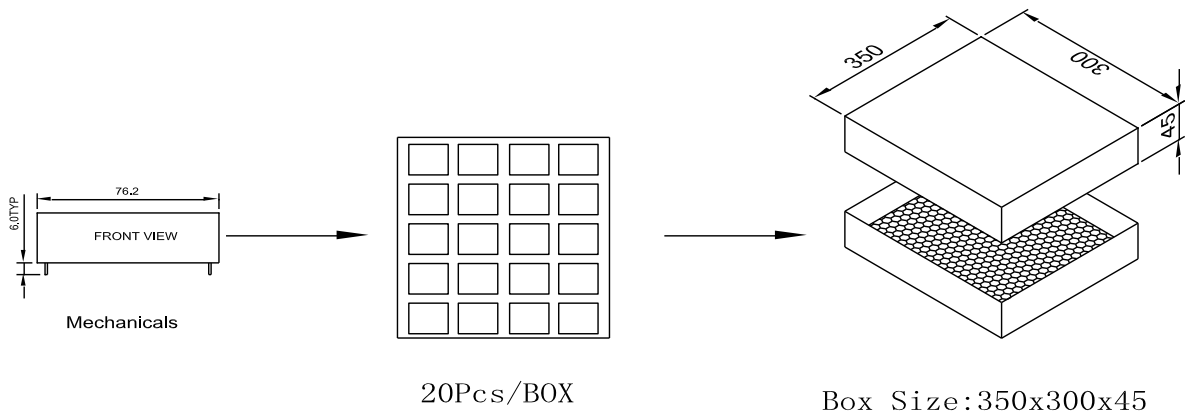
UNIT: mm Unless otherwise specified, all tolerances are ±0.50.

PIN Connection

PIN	1	2	3	4	5	6
Single	FG	ACN	ACL	-Vo	NO PIN	+Vo

Packaging

1. Weight: 170grams/pcs
2. Outer Carton Unit: 60pcs/box
3. Weight: 12.0kg per carton



Outer carton: 375x320x160mm

ADAM TECH

ADAM TECH USA (WORLDWIDE HQ)

909 Rahway Ave.
Union, NJ 07083
U.S.A.
Tel: 908-687-5000
Fax: 908-687-5710
Email: info@adam-tech.com

ADAM TECH EUROPE

Marcel Schwob
Karlsruhe, Germany
Email: info@adam-tech.com

ADAM TECH SOUTH AMERICA

Cesar Nakajune
Sao Paulo, Brazil
Email: info@adam-tech.com

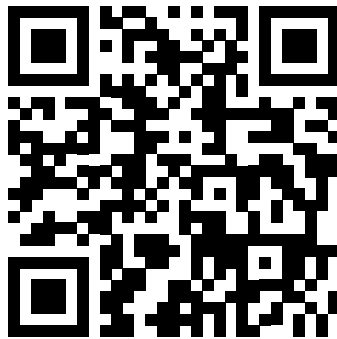
ADAM TECH TAIWAN

9F-3, No. 10, Lane 609, Sec. 5, Chongxin Rd.
Sancong Dist., New Taipei City 241
Taiwan (R.O.C.)
Tel: 886-2 2999 8028
Fax: 886-2 2999 8062
Email: info@adam-tech.com

ADAM TECH CHINA

Yingfeng 1st Road, Dajingtou Community
Dalang Town, Dongguan City
Guangdong Province
China (P.R.C.)
Tel: 886-2 2999 8028
Fax: 886-2 2999 8062
Email: info@adam-tech.com

To contact us, scan the QR
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