Features

- Wide input 85-308VAC/120-430VDC
- DIP Package
- Working Temperature: -40℃～+85℃
- Isolation 3000VAC 5mA 1Minute
- Internal SMD Design
- Metal Shell Packaging
- Cooling Nature
- Good shielding and anti-interference performance, electromagnetic compatibility, lightning protection, output over current, short circuit protection, overheating protection, self recovery and other functions.

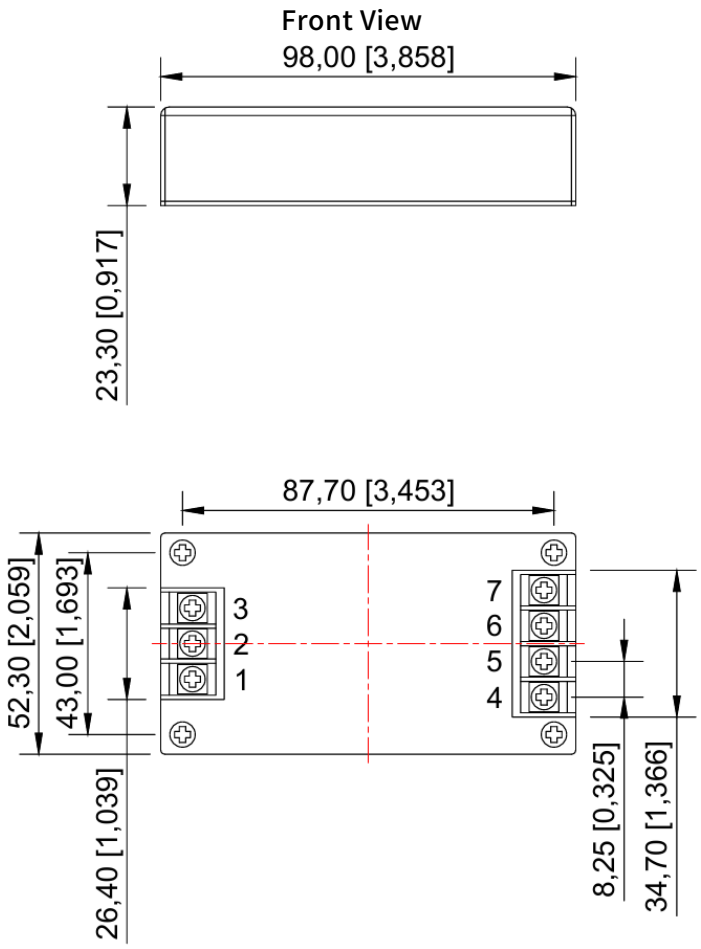
Product Picture



EMC-EN55032
EN55035
LVD-EN62368

Dimensions

Dimensions of AC220S__DZ-60W Series



Bottom View

Pin	Function
1	AC(L)
2	AC(N)
3	FG
4	0V
5	0V
6	+XXVDC
7	+XXVDC

Note:
Unit: mm[inch]
Pinsectiontolerance: ±0.10[±0.004]
General tolerance: ±0.25[±0.01]
The device layout is for reference only.

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Application

Industrial control and long-distance DC power supply systems, switching systems, AC/DC (5V products), railway communications, communication interface converters, cellular phones, semiconductor lasers, display screens, monitoring equipment, petrochemicals, portable instruments, medical instruments, automatic control devices, anti-theft alarms, handheld instruments, digital circuits, IC card watt-hour meters, air-conditioning computer controllers, LED products, digital products, power adapters, etc.

Selection Guide

Model	output power (W)	Vin (V)	Vout (V±2%)	Full Load Output Current (mA)	Efficiency (%)	Isolation (VAC)
AC220S05DZ-60W	50	85-308VAC (120-430VDC)	5	10000	⩾89	3000
AC220S09DZ-60W	60		9	6667	⩾90	3000
AC220S12DZ-60W			12	5000	⩾90	3000
AC220S15DZ-60W			15	4000	⩾90	3000
AC220S24DZ-60W			24	2500	⩾90	3000
AC220S48DZ-60W			48	1250	⩾91	3000

Note: Our company can customize any input and output module power supply for customers. If you have special needs, please call our company. Unless otherwise specified, input = Vi. The characteristics of the module power supply should comply with the provisions of Table 1 and be applicable to the full temperature range (-40°C ⩽ Tc ⩽ 85°C)

Electrical Characteristics

Characteristics	Symbol	ConditionVi ,-40°C⩽Tc⩽85 (Unless Otherwise Specified)	Min	Max	Unit
Output Voltage	Vo	FullLoad	Vo-2%	Vo+2%	V
Output Current	Iomax	—	—	P(Power)/U(Output voltage)	A
Output Ripple Voltage	Vp-p	FullLoad，Vi，BW=20MHz，NormalTemperature	80	240	mV
OutputNoiseVoltage	Vp-p	FullLoad，Vi，BW=20MHz，NormalTemperature	100	480	mV
VoltageRegulation	Sv	Vimin、Vi、Vimax，FullLoad	—	＜0.5%	%
LoadRegulation	Si	Vi，Io=(10%~100%)Iomax	—	＜0.5%	%
Efficiency	η	Vi，FullLoad，Normal Temperature	89	—	%
InsulationResistance	Rl	Inputandoutput，test voltage: 500VDC	100	—	MΩ

General Specifications

EMC Specifications	Magnetic Field Sensitivity TestElectrostatic	GB6833.2-87
	Discharge Sensitivity TestRadiation	GB6833.3-87
	SensitivityTest	GB6833.5-87
	ConductionSensitivityTest	GB6833.6-87
Temperature Excursion	＜0.03%/°C	
Storage Temperature	-40°C~105°C	
Switching Frequency	47Hz~63Hz	
Humidity	20%~95%RH	
LeakCurrent	5mA(max)	

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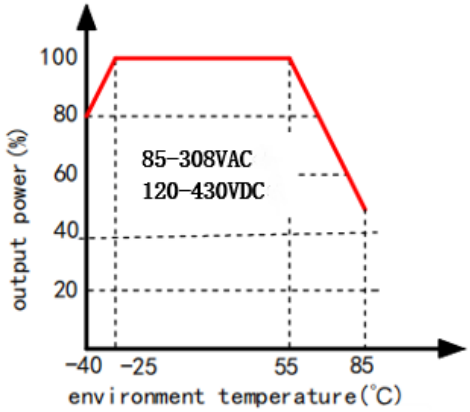
MTBF	＞500000H

Mechanical Specifications

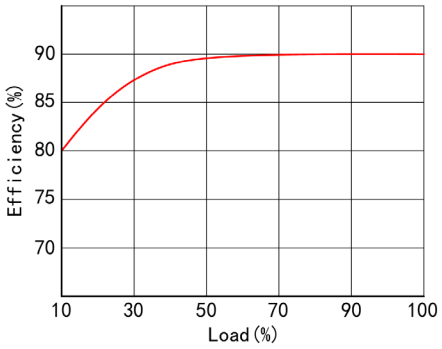
Size	98.00 x 52.30 x 23.30 mm

Typical Characteristic Curves

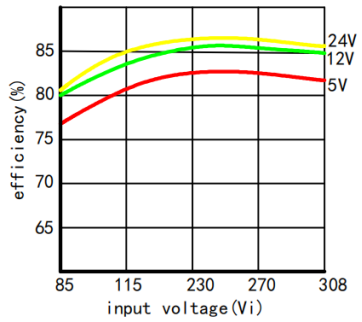
Temperature chart



Efficiency/Load graph

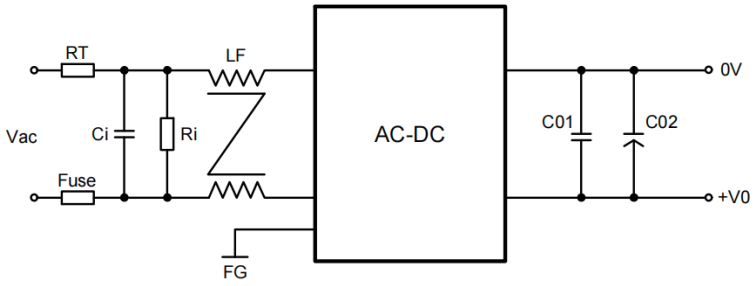


Efficiency/Input voltage graph



Typical Application

Design Reference



Recommendation Test

Filtering：In some circuits sensitive to noise and ripple, a filter capacitor can be externally connected to the input and output terminals of DC/DC to reduce ripple's impact on the system, but the value of the filter capacitance should be appropriate. If the capacitor is too large, it may cause startup problems. For each output line, under the condition of ensuring safe and reliable operation, The maximum capacity of its filtering

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capacitance can be referred to the external capacitance table. In order to obtain very low ripple, an "LC" filtering network can be connected to the input and output end of DC/DC converter, so that the filtering effect will be better. At the same time, it should be noted that the value of inductance and the frequency of "LC" filtering network should be staggered from the frequency of DC/DC module power supply to avoid mutual interference. For each output line, it is recommended to see the capacitive load value (Table 1) under safe and reliable working conditions.

Input voltage (Vin+)	C01	C02	RT	Ci(UF)	Ri(KR)	LF(mH)
85-305V	104M/50V	1000uF	8D-7	0.1/275V	560	8-10

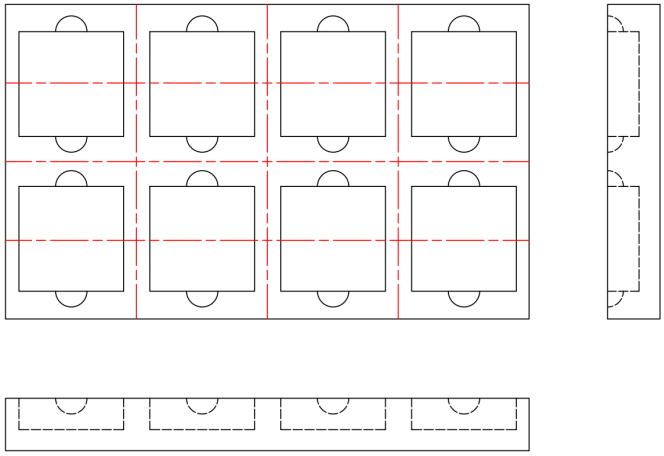
Table of recommended capacitive load values (Table 1)

Note: Please note that the grounding of the main output circuit and the grounding of the load carried should be connected to the ground, so that even if there is a problem with the product, it will not cause harm to personnel. The grounding requirement for auxiliary roads is that they are isolated and do not need to be grounded.

Notice

Package

This series of modules are packed with shockproof electrostatic foam.



Transport

The package is allowed to be transported by any means of transport, which shall avoid direct rain or snow and mechanical damage.

Storage

The module should be stored in a warehouse with an ambient temperature of -40 ° C to 125 ° C, a relative humidity of 20% to 95%, and no acidic, alkaline, or other harmful gases in the surrounding environment.

Note: The above are the performance indicators of the product series listed in this manual. Some indicators of non-standard models may exceed the above requirements. If there is any inconsistency between the manual and the product specification document, please refer to the specification document. If you have special

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requirements, please contact our company directly.

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