



Preliminary

Features

- 90~264VAC full range input Ultra-compact Size
- Efficiency up to 88%
- 50W Peak Load Capability lasting 10 Seconds Optional
- Long Hold-up Time Setting by External Capacitors Optional
- <0.3W No Load Input Power Consumption
- 100uA leakage current
- Reinforced Insulation
- 4kV_{ac} Class II Design
- Encapsulated Power Module
 - Chassis Mount & Din Rail Versions Optional
 - ±10% Output Trimming Function Optional
 - Overvoltage & Short Circuit Protection
 - Meet EN55022 & CIRSS/FCC class B
 - Design meet UL62368-1 EN62386-1 IEC62368-1
 - Design meet UL60601-1 EN60601-1 IEC60601-1
 - Design meet UL60335-1 EN60335-1 IEC60335-1

Applications

- Household Appliance
- Medical Equipment
- Telecom / Datacom
- Industry Control System
- Measurement Equipment
- Semiconductor Equipment
- Wireless network
- Analyzer
- Detector
- Data switch

Description

ACE25 series is 25W Isolated, regulated ac/dc encapsulated power module with 50W peak load lasting 10 seconds and long hold-up time setting by external capacitors. It features a high efficiency up to 88%, wide working temperature range -40~+80°C, no minimum load required, 4kV_{ac} reinforced insulation, OVP, SCP, etc. These power modules use advanced power processing, control and packaging technologies and are suitable for all kinds of systems, such as household appliances, medical devices, industrial control communication systems and network equipment, etc.

MODEL NUMBER STRUCTURE

AC	E	25	-	050	SV0
Series Name	package	Watt		Output Voltage (VDC)	Output Quantity
AC series	Encapsulated	25: 25 Watt		050: 5 120: 12 150: 15 240 : 24 360 : 36 480 : 48	S : Single

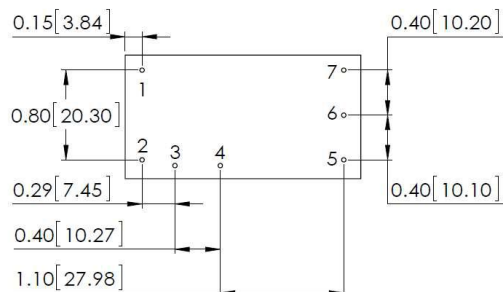
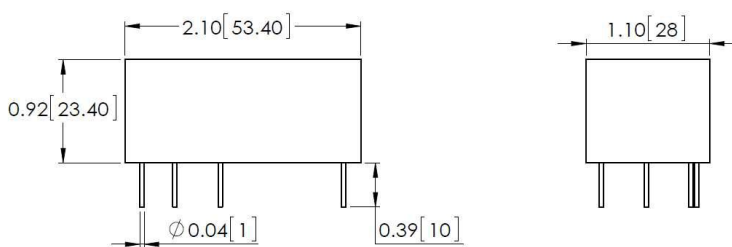
Model Selection Guide

All specifications are typical at nominal input, full load at Ta25°C unless otherwise noted

Model	Output			Efficiency @FL
	Voltage	Current	Power	
	(V)	(A)	(W)	Typ.(%)
ACE25-050SV0	5.0	5	25.0	84
ACE25-120SV0	12.0	2.1	25.2	85
ACE25-150SV0	15.0	1.67	25.1	86
ACE25-240SV0	24.0	1.05	25.2	87
ACE25-360SV0	36.0	0.7	25.2	88
ACE25-480SV0	48.0	0.53	25.4	88

Mechanical Dimensions & Pin Assignments

Tolerance: xx.x= ±0.5mm
xx.xx= ±0.25mm



PIN ASSIGNMENT	
PIN	Function
1	ACL
2	ACN
3	BC+
4	BC-
5	+Vo
6	-Vo
7	Trim

Electrical Specifications

Typical @ Ta=+25°C under nominal line voltage and full load conditions unless noted.

Input Specifications

Parameter	Notes and Conditions	Min.	Typ	Max.	Unit
Operating Input Voltage ranges		90		264	Vac
Operating Input Frequency ranges		47		60	Hz
Input Current				0.3	A
Inrush Current	cold start at 230Vac, 25°C			40	A
Power Factor		EN61000-3-2 Class A			
Leakage Current				100	uA

Output Specifications

Parameter	Notes and Conditions	Min.	Typ	Max.	Unit
Output Voltage Accuracy	100% Load			±1.5	%
Line Regulation	High line to low line			±0.5	%
Load Regulation	0% to 100% load			±1	%
Ripple and Noise	20MHz Bandwidth and with 10uF MLCC. Output Capacitor			1	%
Minimum Load		0			A
Hold Up Time	at full load & 115 VAC	8			ms
Overvoltage Protection		110		150	%
Short-circuit Protection		Hiccup mode (Auto-Recovery)			

General Specifications

Parameter	Notes and Conditions	Min.	Typ	Max.	Unit
Switching Frequency			67		KHz
Storage Temperature range	All models	-55		125	°C
Operating Ambient Temperature	All models, derating from 100% at 50°C to 25% at 80°C	-40		80	°C
Humidity (non condensing)	All models			95	%
Operating Altitude				3000	m
Isolation Voltage Input to Output		4000			Vac
Weight	All models		100		g (oz.)
Dimensions	2.10" x 1.10" x 0.92" (53.4 x28.0 x 23.4mm)				
Case Material	Plastic				

The information and specifications contained in this data sheet are believed to be correct at time of publication. If any errors or omissions are discovered, shall notify the party immediately.

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