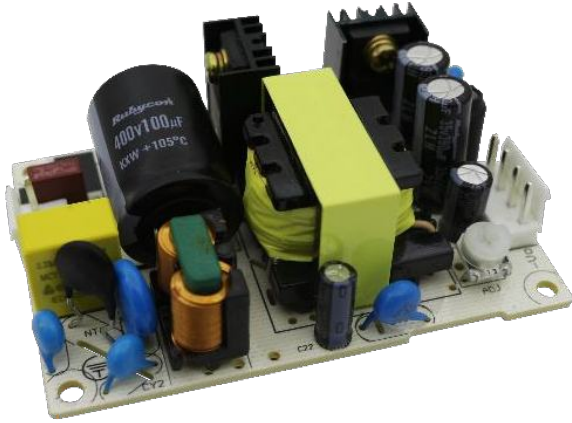


ACO65W-xxVS



FEATURES

- Wide input range (90-264VAC)
- Size 76.2*50.8*26mm, 3"*2"
- Suitable for CLASS I or CLASS II installations
- Built-in EMI filter: CLASS B
- Protection type: short circuit /over temperature /over load /over voltage
- Operating temperature range -40°C to +70°C
- 3000V isolation voltage
- 100% high temperature aging and testing

MODEL NUMBERING

ACO65W-xxVS



SELECTION GUIDE

Product Model	Input Voltage	Rated Power (W)	Output Voltage (V)	Output Current (A)
ACO65W-05VS	85-264VAC 100-370VDC	40	5	9
ACO65W-12VS		65	12	5.42
ACO65W-15VS		65	15	4.34
ACO65W-24VS		65	24	2.71
ACO65W-48VS		65	48	1.35

INPUT CHARACTERISTICS

Parameter	Units	Model
Input Voltage	90-264VAC	
	100-370VDC	
AC Current (Typ.)	1.2A Max/100VAC 0.6A Max/240VAC	
Nominal Voltage	100-240VAC	
Inrush Current (Typ.)	Cold boot 40A/115VAC 60A/230VAC at full load	
Leakage Current	≤100μA/240VAC	
Average Efficiency (Typ.)	82%	ACO65W-05VS
	89%	ACO65W-12VS
	89%	ACO65W-15VS
	89%	ACO65W-24VS
	90%	ACO65W-48VS

OUTPUT CHARACTERISTICS

Parameter	Units	Model				
Voltage Tolerance	±1.0%	ACO65W-12VS, ACO65W-15VS, ACO65W-24VS, ACO65W-48VS				
	±2.0%	ACO65W-05VS				
Line Regulation	±1.0%					
Load Regulation	±1.0%					
Setup, Rise Time (Typ.)	1000ms/230VAC at full load					
Hold Up Time (Typ.)	90ms/230VAC at full load					
Ripple & Noise (Max.)	100 mVp-p	ACO65W-05VS				
	120 mVp-p	ACO65W-12VS, ACO65W-15VS, ACO65W-24VS, ACO65W-48VS				
Voltage Adjustable Range (V)	Voltage	5VDC	12VDC	15VDC	24VDC	48VDC
	Range	4.5-5.5	11.8-13.3	13.7-16.3	22.9-25.8	45-53.2

PROTECTION CHARACTERISTICS

Parameter	Units					
Over Load	≥110% load, self-recovery after trouble shooting					
Short Circuit	Hiccup mode, self-recovery after trouble shooting					
Over Temperature	Reduced power output or no output					
Over Voltage	Shut-off output					
	Voltage	5VDC	12VDC	15VDC	24VDC	48VDC
	Range	≤7.5V	≤16V	≤20V	≤30V	≤63V

GENERAL CHARACTERISTICS

Parameter	Units
Working Temperature	-40°C to +70°C (Refer to "Derating curve")
Working Humidity	10-85%RH
Storage Temperature	-40°C To +85°C
Temperature Coefficient	0.03%/ (0-50°C)
Vibration	10-500Hz, 2G, 10min./1cycle, 60min.each along X, Y, Z axes
MTBF	165K hrs min. MIL-HDBK-217F (25°C)

SAFETY CHARACTERISTICS

Parameter	Units
Safety Standards	IEC62368, EN62368
Isolation Voltage	I/P-O/P: 3000VAC I/P-FG(CASE): 1500VAC O/P-FG(CASE): 500VAC
Isolation Resistance	I/P-O/P, I/P-FG, O/P-FG: >100M Ohms/500VDC 25°C 70% RH

EMC CHARACTERISTICS

Parameter	Category	Content
EMI	CE	EN55011, EN55032 (CISPR32) CLASS B
	RE	EN55011, EN55032 (CISPR32) CLASS B

Parameter	Category	Content
EMC	ESD	IEC/EN 61000-4-2 level 4 Contact $\pm 8\text{kV}$ /Air $\pm 15\text{kV}$
	RF	IEC/EN 61000-4-3 level 4 lev3
	EFT	IEC/EN 61000-4-4 level 4 4kV
	Surge	IEC/EN 61000-4-5 level 4 line to line 2kV/line to ground 4kV

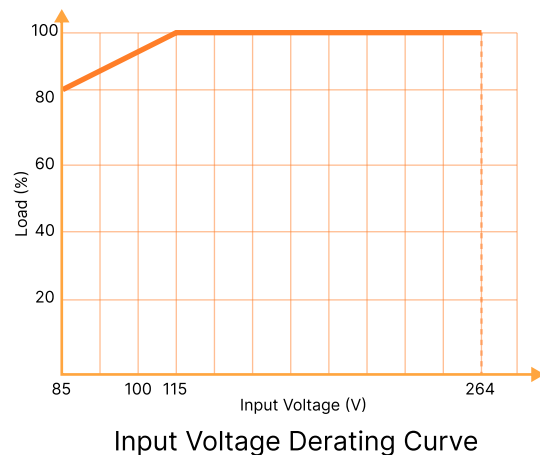
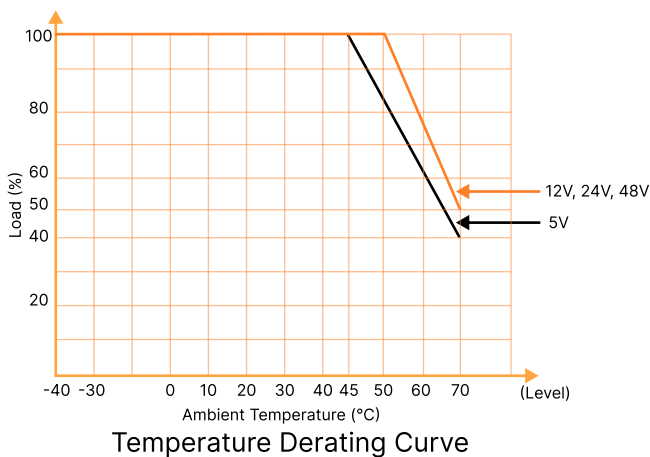
DIMENSION, WEIGHT & PACKING

Parameter	Units
Dimension (LxWxH)	76.2 × 50.8 × 26mm
Weight	92g
Package	9 PCS/Box 12 Box/Carton
Carton Size	360 × 300 × 250mm

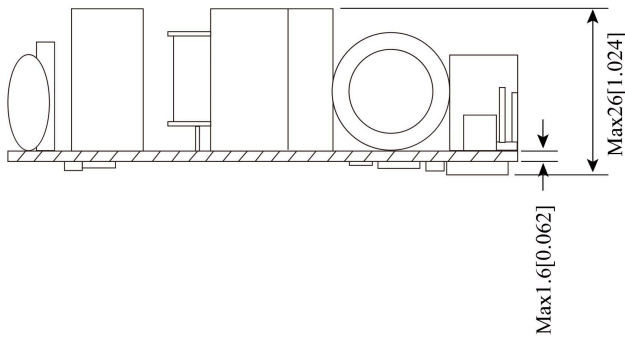
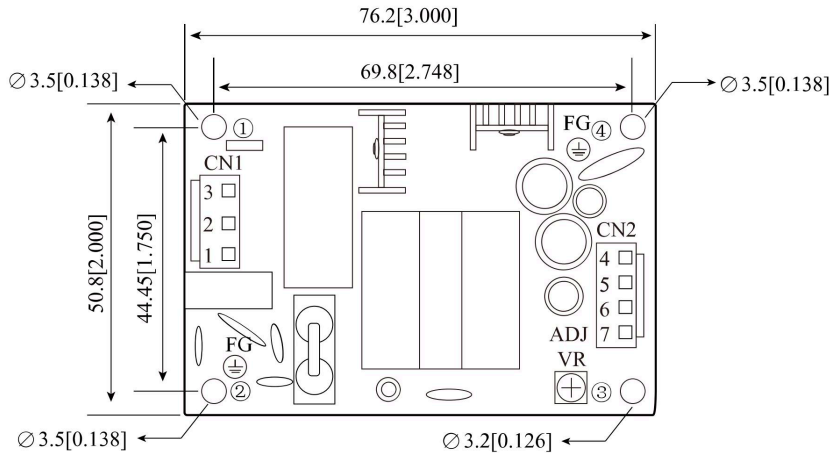
NOTE

1. All parameters not specially mentioned, are measured when $T_A=25^\circ\text{C}$, humidity<75%, input nominal voltage and output rated load.
2. Measurement method of ripple & noise: Parallel line test method shall be adopted. Meanwhile, 0.1uF high-frequency ceramic capacitor and one 47uF electrolytic capacitor shall be connected in parallel at the terminal for measurement under 20Mhz bandwidth.
3. The power supply is regarded as a component in the system, and electromagnetic compatibility shall be confirmed in combination with the terminal equipment.

PRODUCT CHARACTERISTIC CURVE



DIMENSIONS AND INSTALLATION

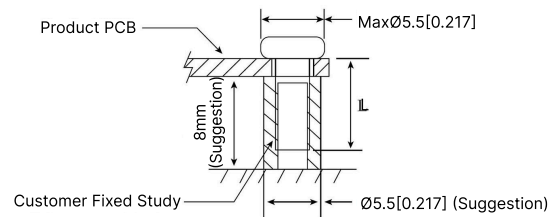


Note:

1. Unit size:mm [inch] Unmarked tolerances: $\pm 0.5\text{mm}$
2. CLASS I system: Mounting holes marked with \perp must be connected to safety earth
3. CLASS II system: Unnecessary to connect with safety earth

Pin Method			
Connector	Pin	Function	Customer Connection End
CN1	1	AC(N)	Connector: JST VHR Connector Terminals: JST SVH-21T-P1.1 Or Equivalent Products
	2	No Pin	
	3	AC(L)	
CN2	4	+Vo	Connector: JST VHR Connector Terminals: JST SVH-21T-P1.1 Or Equivalent Products
	5	+Vo	
	6	-Vo	
	7	-Vo	

Installation location	Screw Specifications	L (Suggestion)	Torque (max)
①-④	M3	6mm	0.4N·m



NOTE

1. If the product works under the minimum required load, it cannot guarantee that the performance of the product complies with all the performance indicators in this manual;
2. The maximum capacitive load is tested under the input voltage range and full load condition;
3. Unless otherwise stated, all indexes in this manual are measured at $T_a=25^\circ\text{C}$, humidity $<75\%RH$, nominal input voltage and rated output load;
4. All index testing methods in this manual are based on the enterprise standards of the company;
5. Our company can provide product customization, specific needs can directly contact our technical staff;
6. RHENXV reserves the right to make changes to the product at any time without notice.