

ACO15W-xxV



CE Report

RoHS



FEATURES

- Wide input range (85-264VAC, 100-370VDC)
- Size 63.5*45.7*18.0mm, 2.5"*1.7"
- Protection type: short circuit/over load/over voltage
- Operating temperature range: -40°C to +70°C
- 3000V isolation voltage
- Suitable for CLASS I installations
- 100% high temperature burn-in and function test
- 3 years warranty

MODEL NUMBERING

ACO15W-xxV

Series

Output Voltage

Wattage

SELECTION GUIDE

Product Model	Input Voltage	Rated Power (W)	Output Voltage (V)	Output Current (A)	Ripple & Noise (mVp-p)	Efficiency (%)
ACO15W-03V	85-264VAC 100-370VDC	9.9	3.3	3	50	83
ACO15W-05V		15	5	3	50	85
ACO15W-12V		15	12	1.25	50	87
ACO15W-15V		15	15	1	50	87
ACO15W-24V		15	24	0.625	50	88

OUTPUT CHARACTERISTICS

Parameter	Units
Voltage Tolerance	±1.0%
Line Regulation	±1.0%
Load Regulation	±1.0%
Setup, Rise Time (Typ.)	1000ms, 50ms/230VAC 1500ms, 50ms/230VAC at full load
Hold Up Time (Typ.)	20ms/230VAC 10ms/115VAC at full load

INPUT CHARACTERISTICS

Parameter	Units
Voltage Range	85-264VAC 100-370VDC
Current (Typ.)	270mA/115VAC 160mA/230VAC
Inrush Current (Typ.)	Cold boot 40A/115VAC 50A/230VAC at full load
Leakage Current (Typ.)	<0.75mA/230VAC/60Hz

PROTECTION

Parameter		Units				
Over Load	≥110% load, recovers automatically after fault condition is removed					
Short Circuit	Hiccup mode, recovers automatically after fault condition is removed					
Over Voltage	Shut-off output					
	Voltage	3.3VDC	5VDC	12VDC	15VDC	24VDC
	Range	≤7.5V	≤7.5V	≤16V	≤20V	≤30V

ENVIRONMENT

Parameter	Units
Working TEMP.	-40°C to +70°C (Refer to "Derating curve")
Working Humidity	10-85%RH
Storage TEMP. Humidity	-40°C to +105°C
TEMP. Coefficient	0.03%/ (0-50°C)
Vibration	10-500Hz, 2G, 10min./1cycle, 60min.each along X, Y, Z axes

SAFETY & EMC

Parameter	Units
Safety Standards	IEC60950, EN60950
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°C70%RH
EMC Emission & Immunity	EN55011, EN55032 (CISPR32) CLASS B
ESD	IEC/EN 61000-4-2 level 4 Contact ±8kV/Air ±15kV
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

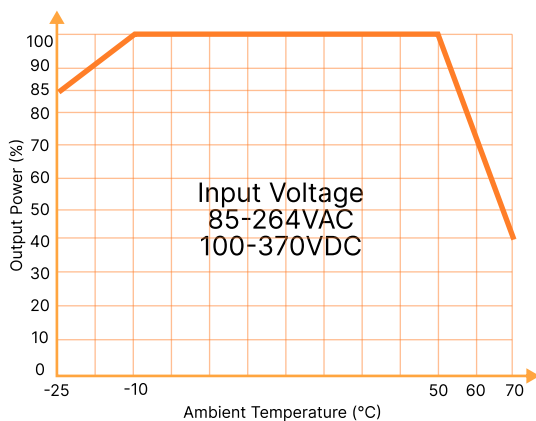
DIMENSION, WEIGHT & PACKING

Parameter	Units
MTBF	165K hrs min. MIL-HDBK-217F (25°C)
Dimension	63.5*45.7*18.0mm (L*W*H)
Weight	27g
Package	13 PCS/Box 208 PCS/Carton
Carton Size	360*300*250mm

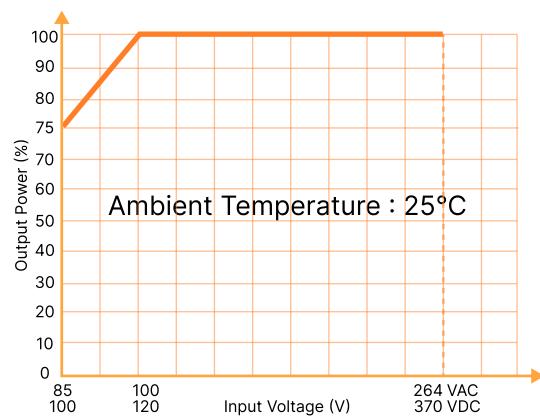
NOTE

1. All parameters not specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.
2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uF & 47uF parallel capacitor.
3. The power supply is considered as an independent unit, but the final equipment still need to confirm that the whole system complies with the EMC directives.

PRODUCT CHARACTERISTIC CURVE

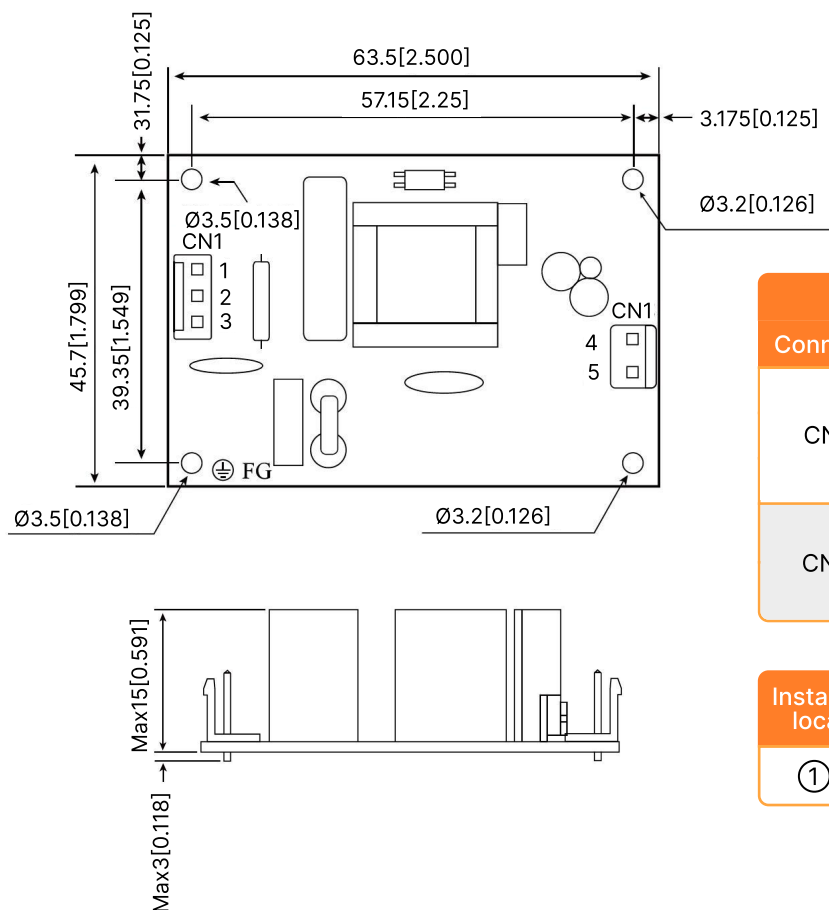


Temperature Derating Curve



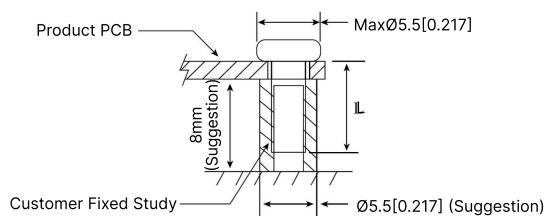
Input Voltage Derating Curve

DIMENSIONS AND INSTALLATION



Pin Method			
Connector	Pin	Function	Customer Connection End
CN1	1	AC(L)	Connector: JSTVHR Connector Terminals: JST SVH-21T-P1.10r Equivalent Products
	2	No Pin	
	3	AC(N)	
CN2	4	+Vo	Connector: JSTVHR Connector Terminals: JST SVH-21T-P1.1 Or Equivalent Products
	5	-Vo	

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



Note:

- Unit size: mm[inch] Unmarked tolerances: $\pm 0.5\text{mm}$
- CLASS I system: Mounting holes marked with $\perp$ must be connected to safety earth