

ACO65W-xxVMU



CE Report

RoHS



FEATURES

- Wide input range (90-305VAC, 100-430VDC)
- Size 76.2*50.8*27mm, 3"*2"
- No load power consumption<0.3W
- Protection type: short circuit/over load/over voltage
- Operating temperature range -40°C to +70°C
- 4000V isolation voltage
- 100% high temperature aging and testing
- 3 years warranty

MODEL NUMBERING

ACO65W-xxVMU



SELECTION GUIDE

Product Model	Input Voltage	Rated Power (W)	Output Voltage (V)	Output Current (A)	Ripple & Noise (mVp-p)	Efficiency (%)
ACO65W-05VMU	90-305VAC 100-370VDC	60	5	12	75	84
ACO65W-12VMU		65	12	5.42	75	88
ACO65W-15VMU		65	15	4.34	75	88
ACO65W-24VMU		65	24	2.71	80	88
ACO65W-36VMU		65	36	1.81	100	90
ACO65W-48VMU		65	48	1.35	100	90

OUTPUT CHARACTERISTICS

Parameter	Units
Voltage Tolerance	±1.0%
Line Regulation	±1.0%
Load Regulation	±1.0%
Setup, Rise Time (Typ.)	2000, 50ms/230VAC at full load
Hold Up Time (Typ.)	16ms/230VAC at full load

INPUT CHARACTERISTICS

Parameter	Units
Voltage Range	90-305VAC 100-430VDC
Current (Typ.)	1.2A Max/115VAC 0.6A Max/230VAC
Nominal Voltage	100-277VAC
Inrush Current (Typ.)	Cold boot 40A/115VAC 60A/230VAC at full load
Leakage Current (Typ.)	≤100μA/240VAC

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	5VDC	12VDC	15VDC	24VDC	36VDC	48VDC
	Range	≤7.5V	≤16V	≤20V	≤30V	≤48V	≤60V

ENVIRONMENT

Parameter	Units
Working Temperature	-40°C to +70°C (Refer to "Derating curve")
Working Humidity	10-85%RH
Storage Temperature Humidity	-40°C to +105°C
Temperature 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	IEC60601-1,EN60601-1, EN/EN62368-1, IEC62368-1
Isolation Voltage	I/P-O/P : 4.0kVAC
Isolation Resistance	I/P-O/P : >100M Ohms/500VDC 25°C 70% 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 2kV

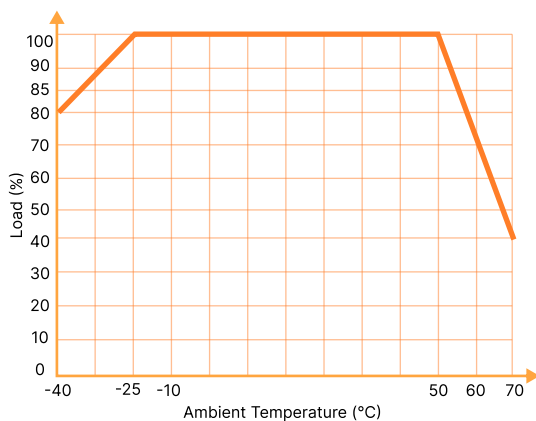
DIMENSION, WEIGHT & PACKING

Parameter	Units
MTBF	165K hrs min. MIL-HDBK-217F (25°C)
Dimension	76.2 × 50.8 × 27mm (L*W*H)
Weight	99g
Package	9 PCS/Box 16 Box/Carton
Carton Size	360*300*250mm

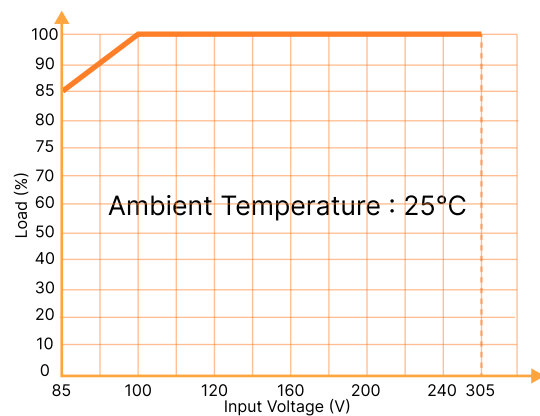
NOTE

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 re-confirm that the whole system complies with the EMC directives.

PRODUCT CHARACTERISTIC CURVE

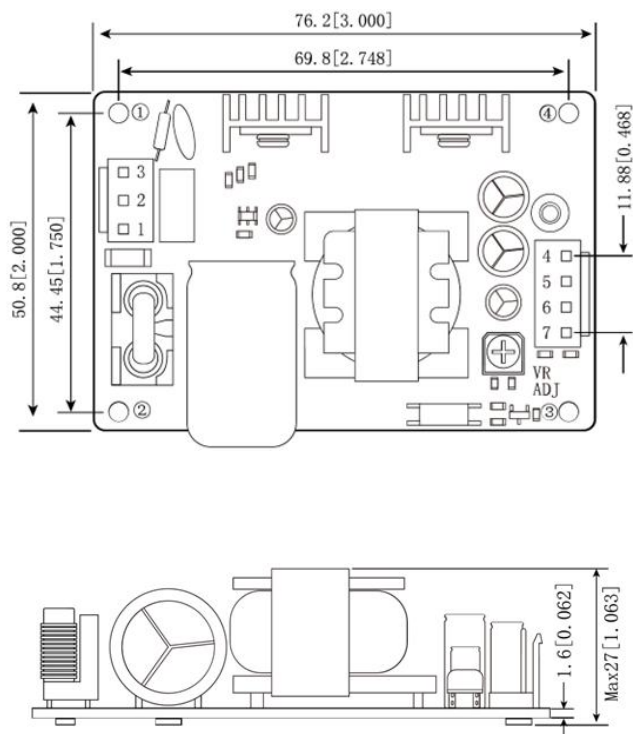


Temperature Derating Curve



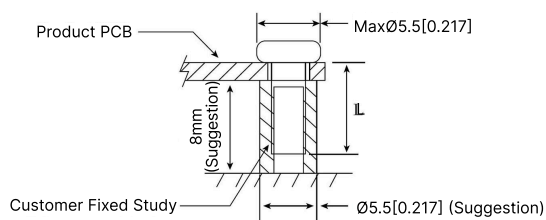
Input Voltage Derating Curve

DIMENSIONS AND INSTALLATION



Pin Method			
Connector	Pin	Function	Customer Connection End
CN1	1	AC(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	

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



Note:

Unit size:mm [inch] Unmarked tolerances: $\pm 0.5\text{mm}$

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