

# UMOAT 300W Series

**Medical - Open Frame**  
**Compact 3" × 5"**



▲ UMOAT3300 Series



■ Please contact our sales department for safety standard of each model.



## Product Highlights

- Stability
- Energy and High Efficiency
- Small Size
- Meet Complies with IEC61000-3-2
- Power Factor Correction
- Full Range Input Voltage (90Vac~264Vac)
- Appendix 8 of PSE : Comply with Dusty Requirement.

## Efficiency

- Up to 92%

## Protection

- Short Circuit Protection
- Over Voltage Protection
- Over Current Protection
- Brown In and Brown Out Protection

## Emissions

- FCC
    - FCC Part18-B
  - CE
    - EN(CISPR)55011-B
  - VCCI-B
- (\*Power supply with AC inlet filter mounted in user's metal chassis)

## Safety Standard

- 60601-1
- PSE 別表第八 100V 基準に準拠

## Immunity

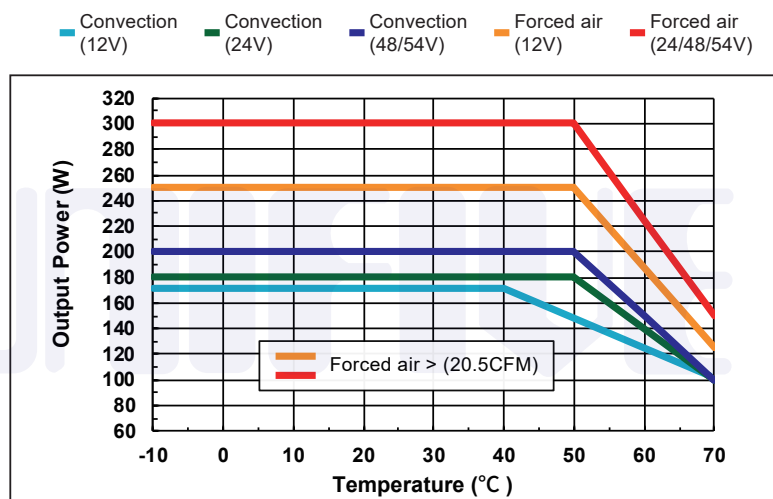
- EN60601-1-2
- The above specifications include the following test standards
- ✓ EN61000-4-2
  - ✓ EN61000-4-3
  - ✓ EN61000-4-4
  - ✓ EN61000-4-5
  - ✓ EN61000-4-6
  - ✓ EN61000-4-8
  - ✓ EN61000-4-11

## Electrical Spec

Input					
Description		Min.	Typ.	Max.	Units
Voltage		90	100~240	264	Vac
Frequency		47	50/60	63	Hz
Power Factor	ACIN 100V	-	0.95	-	-
	ACIN 230V	-	0.9	-	-

Environmental						
Description	Min.	Typ.	Max.	Units	Comment	
Operating Temperature	-10	-	70	°C	Refer to Derating Curve(*1)	
Storage Temperature	-20	-	85	°C	Free Convection, Sea Level	
Operating Humidity	5	-	95	%RH	No Condensing	
Storage Humidity	5	-	95	%RH	No Condensing	

## Derating Curve(\*1)



## Typical model list

Model Name	Output Port	DC Output Voltage	DC Output Current		Output Voltage Precision	Ripple	Noise
			Free Convection	Forced Air (*2)			
UMOAT3300-120208SA	CON101 CON102	12.0V	12.5A	20.83A	±4%	120mV	240mV
UMOAT3300-240125SA		24.0V	7.5A	12.5A	±4%	240mV	480mV
UMOAT3300-480063SA		48.0V	4.16A	6.25A	±4%	480mV	480mV
UMOAT3300-540056SA		54.0V	3.7A	5.56A	±4%	480mV	480mV

### ■ Measurement Condition

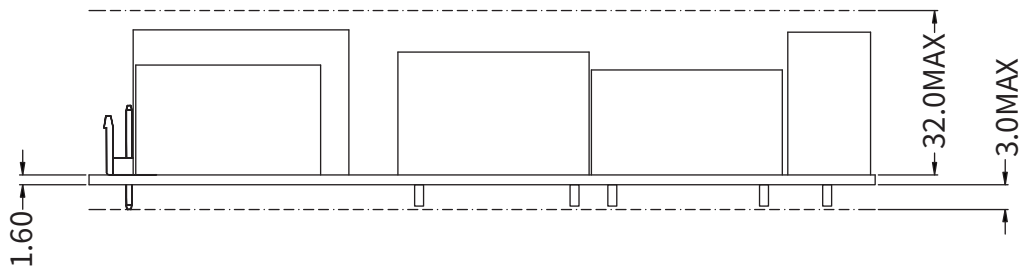
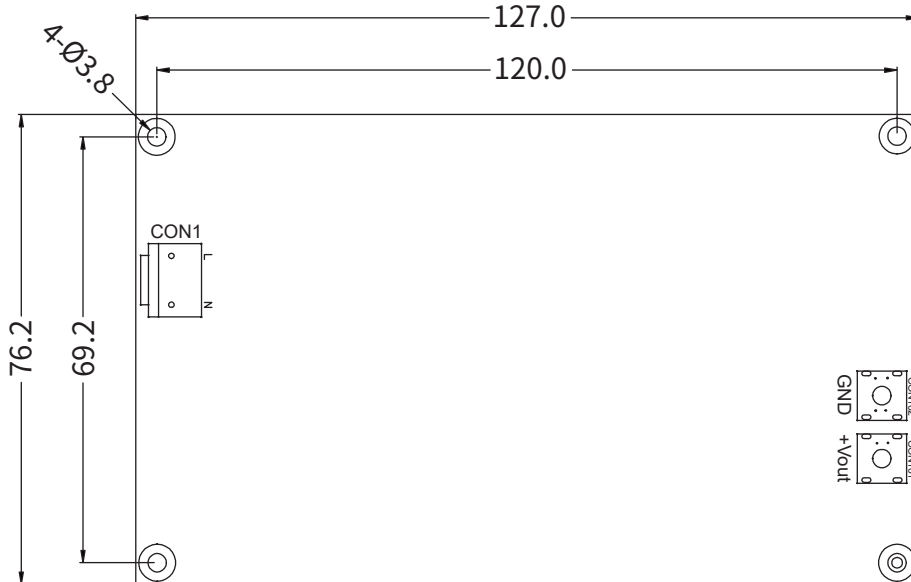
- Measurements shall be made with an oscilloscope with 20MHz bandwidth.
  - Outputs shall be bypassed at the connector with a 0.1uF ceramic disk capacitor and a 10uF electrolytic capacitor to simulate system loading.
- (\*2) Condition for forced air is no less than 20.5CFM.

more detail on next page

# Mechanical Spec

**TOLERANCE: ±0.5**  
**Unit:mm**

**Mounting Holes: 4-Ø3.80**



**CON1**

PIN NUMBER	INPUT
1	AC(N)
2	
3	AC(L)

CON1 : INPUT CONNECT  
 MODEL NO : A3963WV-3P  
 (THE EQUIVALENT)

**CON101**

PIN NUMBER	OUTPUT
1	+Vout

CON101 : OUTPUT CONNECT  
 MODEL NO : PCB-10  
 (THE EQUIVALENT)

**CON102**

PIN NUMBER	OUTPUT
1	GND

CON102 : OUTPUT CONNECT  
 MODEL NO : PCB-10  
 (THE EQUIVALENT)

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