

UNOWT 100W Series

Industrial Power Supply
Standard Product
Compact 2.4"×6.1"



▲ UNOWT3100 Series



▲ UNBWT3100 Series
with chassis



▲ UNSWT3100 Series
with chassis and cover



■ For further information of UNOWT 100W series' safety standard, please contact us.



Model Name Definition

UNOWT 3100 - _____

① ② ③ ④ ⑤

① Developed by UNIFIVE

② Series Code

③ Input Voltage (V)

④ Output Power (W)

⑤ Function Description
(multiple digits)

- S: standard version
- CS: w/ chassis and cover
- R: w/ remote ON/OFF
- CR: w/ chassis, cover, and remote ON/OFF

Product Highlights

- Stability
- Energy and High Efficiency
- Appendix 8 of PSE :
comply with dusty requirement
- SEMI F47
Valid if VAC.input > 200V
- 5 years warranty
- Correspond to OVC III (2000m)
- Operating altitude Up to 5,000m
- Suitable for industrial equipment

Efficiency

- Energy Efficiency Level VI (ErP / DoE)
- Meet Commission Regulation(EU)
2019/1782
- Meet DOE 10 CFR part 429 and 430

Protection

- Short Circuit Protection
- Over Voltage Protection
- Over Current Protection

Safety Standard

- 62368-1
- PSE 別表第八
100V-240V 基準に準拠

Emissions

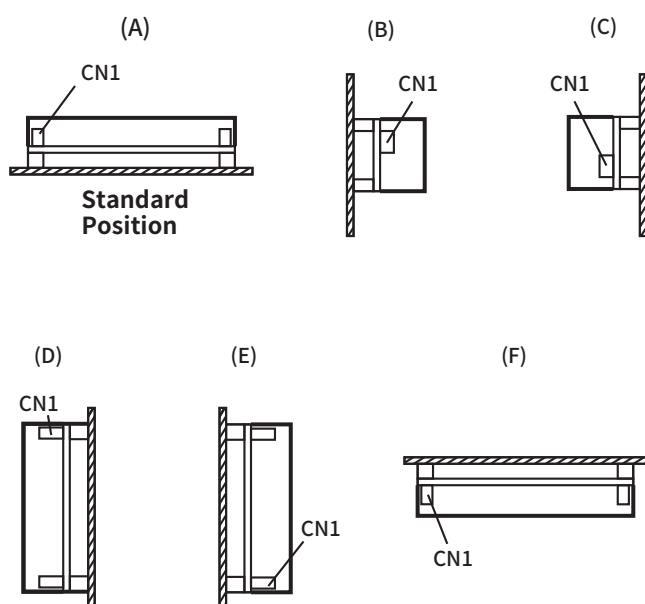
- FCC
 - FCC Part15-B
- CE
 - EN(CISPR)55032-B
- BS EN 55032

Immunity

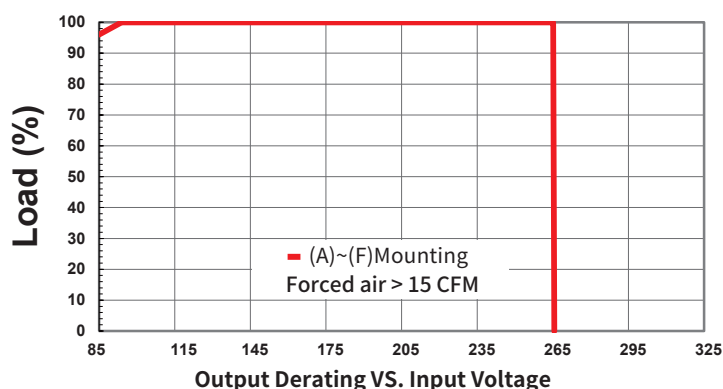
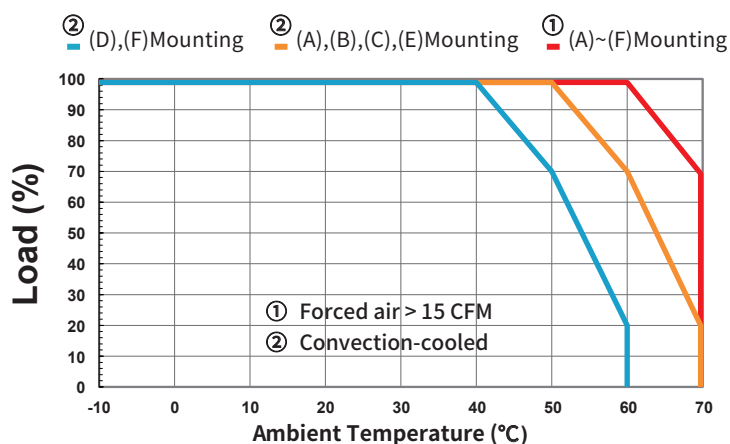
- EN55035
 - BS EN 55035
- The above specifications include the following test standards
- ✓ EN61000-4-2
 - ✓ EN61000-4-3
 - ✓ EN61000-4-4
 - ✓ EN61000-4-5
 - ✓ EN61000-4-6
 - ✓ EN61000-4-8
 - ✓ EN61000-4-11

Installation Method & Derating

Installation method



Ambient temperature derating curve (reference value)



Electrical Spec

Input					
Description	Min.	Typ.	Max.	Units	Comment
Voltage	85	100~240	265	Vac	
Frequency	47	50/60	63	Hz	

Environmental					
Description	Min.	Typ.	Max.	Units	Comment
Operating Temperature	-10	-	70	°C	Free Convection, Sea Level
Storage Temperature	-30	-	75	°C	Free Convection, Sea Level
Operating Humidity	5	-	95	%RH	No Condensing
Storage Humidity	5	-	95	%RH	No Condensing

Typical model list

Output Port	Model Name	DC Output Voltage	DC Output Current	Output voltage range	Ripple	Noise	Option / Remark
CN2	UNOWT3100-120085SA	12.0V	8.5A	±10% ^(4.)	150mV	180mV	
	UNOWT3100-150067SA	15.0V	6.7A	±10% ^(4.)	150mV	180mV	
	UNOWT3100-240043SA	24.0V	4.3A	±10% ^(4.)	150mV	180mV	
	UNOWT3100-480021SA	48.0V	2.1A	±10% ^(4.)	200mV	240mV	

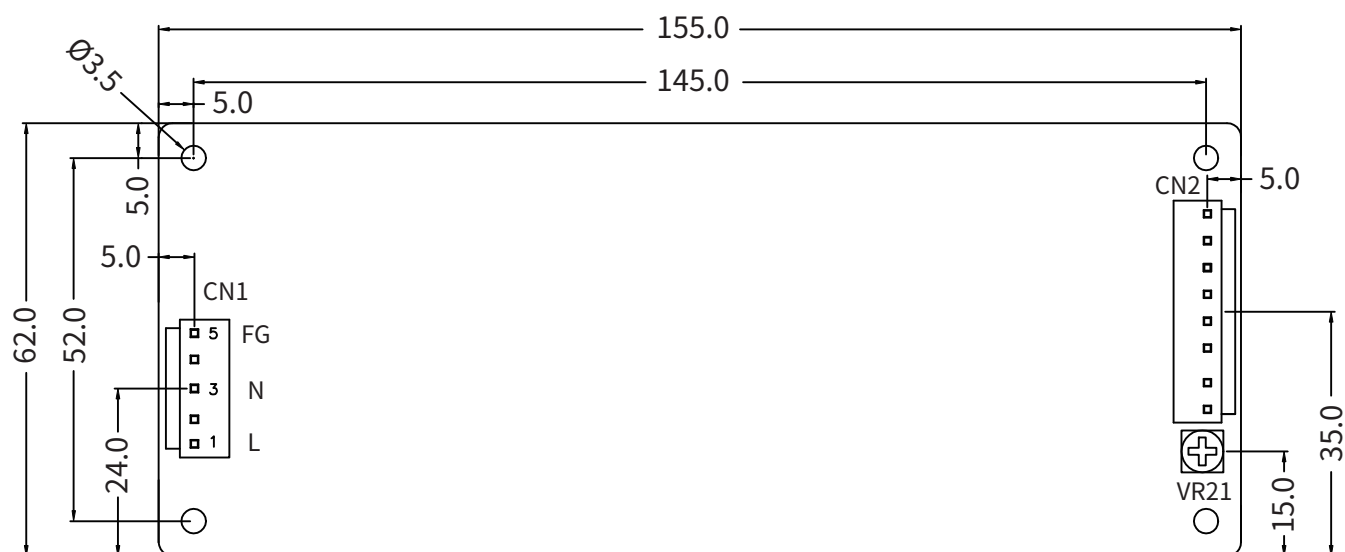
■ Measurement Condition

1. Measurements shall be made with an oscilloscope with 100MHz bandwidth.
2. Outputs shall be bypassed at the connector with a 0.1uF ceramic disk capacitor and a 100uF Low ESR electrolytic capacitor to simulate system loading.
3. Use cable length 150mm for ripple test.
4. Output voltage range ±10%, the voltage can be adjusted by the VR21 mentioned in mechanical spec.

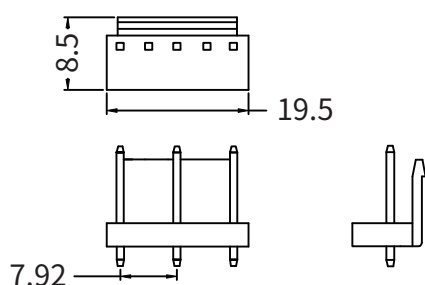
more detail on next page

Mechanical Spec

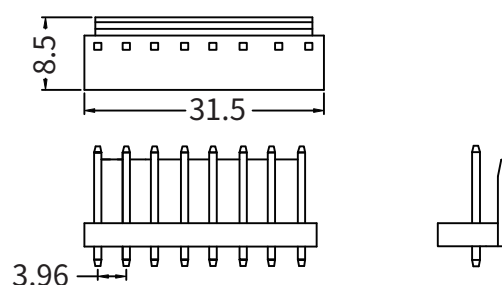
TOLERANCE: ± 0.5
Unit:mm



CN1



CN2



CN1

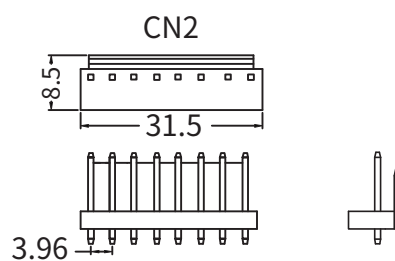
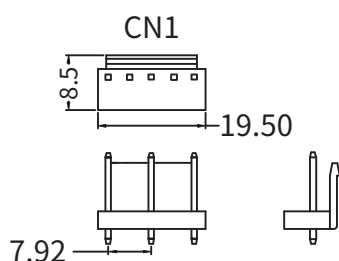
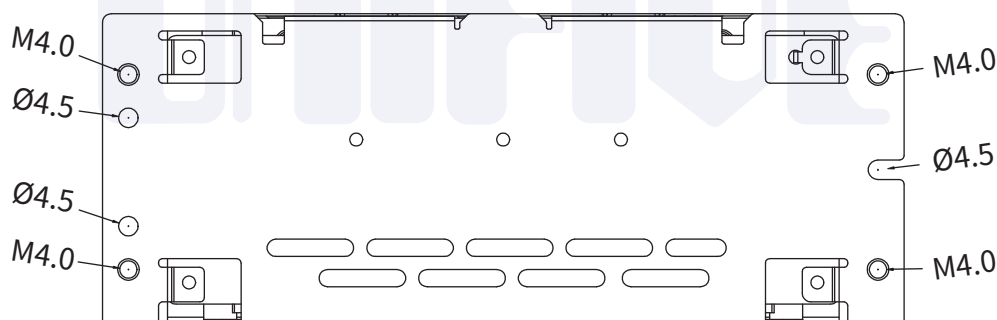
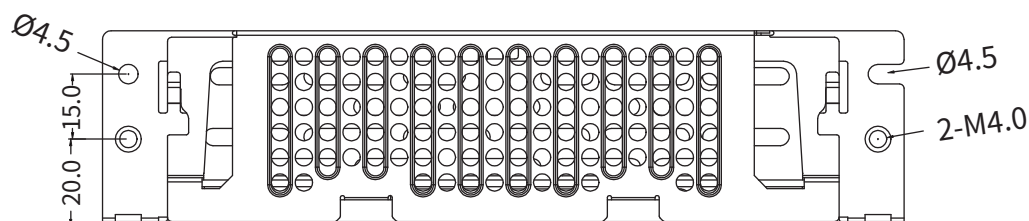
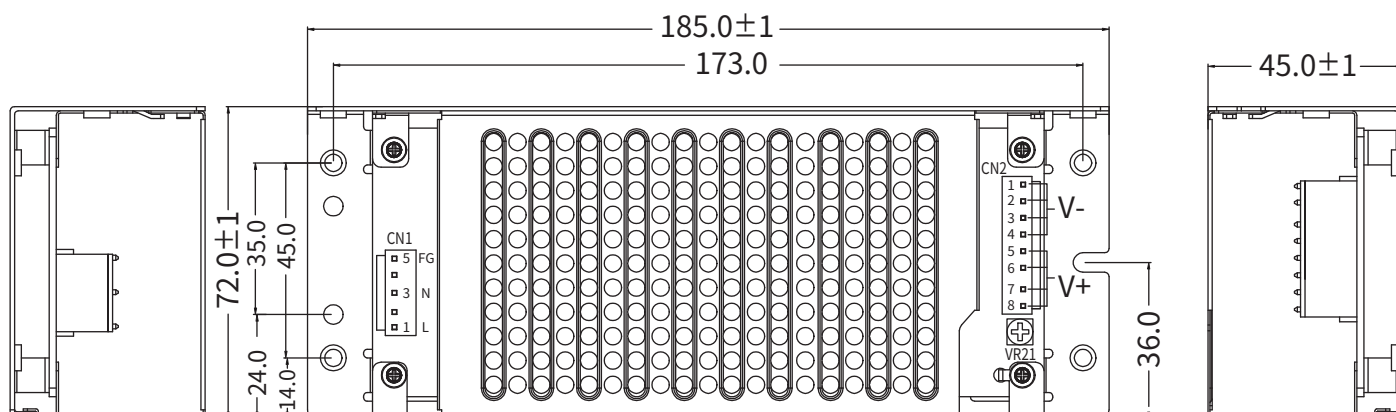
PIN NUMBER	INPUT
1	AC(L)
2	
3	AC(N)
4	
5	FG
CN1 : INPUT CONNECT Specifications are equivalent to models of JST B5P-VH	

CN2

PIN NUMBER	OUTPUT
1,2,3,4	V-
5,6,7,8	V+
CN2 : OUTPUT CONNECT Specifications are equivalent to models of JST B8P-VH	

Mechanical Spec

TOLERANCE: ± 0.5
Unit: mm



CN1

PIN NUMBER	INPUT
1	AC(L)
2	
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5	FG
CN1 : INPUT CONNECT Specifications are equivalent to models of JST B5P-VH	

CN2

PIN NUMBER	OUTPUT
1,2,3,4	V-
5,6,7,8	V+
CN2 : OUTPUT CONNECT Specifications are equivalent to models of JST B8P-VH	

■ Please contact our sales department for details of each model ■