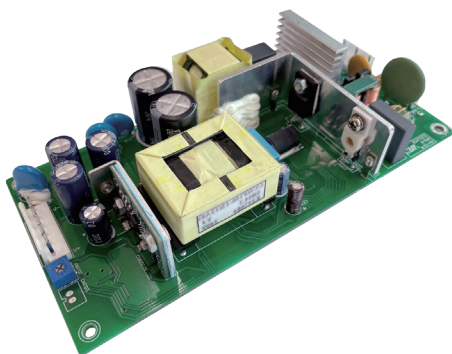


UUHA150 Series

Industrial Power Supply
Standard Product
Compact 3" × 6.3"



▲ UUHA150 series



▲ UUHA150 series with chassis and cover



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



Model Name Definition

UUHA 150 - _ _ _

① ② ③ ④ ⑤

- ① Developed by UNIFIVE
- ② Series Code
- ③ Output Power (W)
- ④ Output Voltage (V)
- 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

Protection

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

Safety Standard

- 62368-1
- 61558-1
- 60335-1
- PSE 別表第八
100V 基準に準拠

Efficiency

- up to 89.5%

Emissions

- FCC
 - FCC Part15-B
- CE
 - EN(CISPR)55032-B
 - EN(CISPR)55014-B
- BS EN 55032
- BS EN55014-1

Immunity

- EN55035
- BS EN 55035
- EN55014-2
- BS EN55014-2

The above specifications include the following test standards

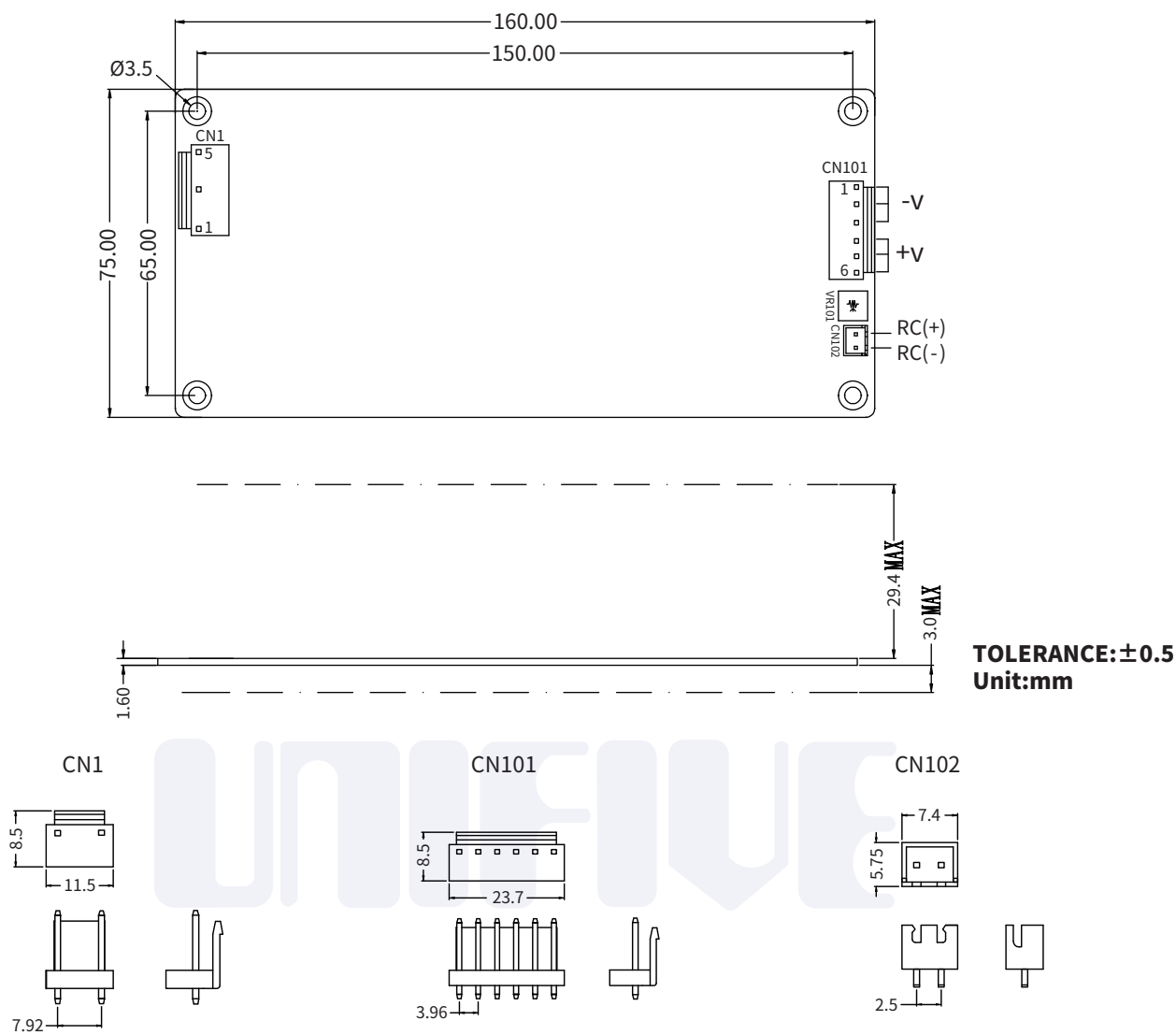
- ✓ EN61000-4-2
- ✓ EN61000-4-3
- ✓ EN61000-4-4
- ✓ EN61000-4-5
- ✓ EN61000-4-6
- ✓ EN61000-4-8
- ✓ EN61000-4-11

more detail on next page

UUHA150 Series							
Model		UUHA150-12S	UUHA150-15S	UUHA150-24S	UUHA150-36S	UUHA150-48S	
Output Wattage Max (Peak Wattage Max) (W)		150W					
DC Output*1	Convection	12V / 12.5A	15V / 10.0A	24V / 6.3A	36V / 4.2A	48V / 3.2A	
Specification							
Input	Voltage (V _{ac})		100/240 (85-264)				
	Current (A)	ACIN 100V	1.8 A				
		ACIN 200V	0.8 A				
	Frequency (Hz)		50/60 (47-63)				
	Efficiency (%)	ACIN 100V	86.5	88.0	89.0	89.5	90.0
		ACIN 230V	89.5	91.0	92.0	92.5	93.0
	Power Factor	ACIN 100V	0.99				
		ACIN 230V	0.91				
	Inrush Current (A)	ACIN 100V	30 Typ. (I _o =100%) Ta=25°C at cold start				
ACIN 200V		60 Typ. (I _o =100%) Ta=25°C at cold start					
Leakage Current (mA _{max})		0.4/0.75 (ACIN 100V/230V 60Hz,I _o =100%, According to IEC60950-1, IEC62368-1 and DEN-AN)					
Output	Voltage (V)		12.0	15.0	24.0	36.0	48.0
	Current (A)		12.5	10.0	6.3	4.2	3.2
	Line Regulation (mV _{max})		48	60	96	144	192
	Load Regulation (mV _{max})		100	120	150	240	240
	Ripple (mVp-p) (0°C to +50°C) ※1		120	120	120	150	150
	Ripple (mVp-p) (-10°C to 0°C) ※1		160	160	160	200	200
	Noise (mVp-p) (0°C to +50°C) ※1		150	150	150	250	250
	Noise (mVp-p) (-10°C to 0°C) ※1		180	180	180	300	300
	Temperature Regulation (mV _{max})	0 to +50°C	120	200	240	360	480
		-10 to +50°C	150	250	290	450	600
	Drift (mV _{max}) ※2		48	60	96	144	192
	Start Up Time (mS)		350 Typ. (ACIN 100V, I _o =100%) Ta=25°C				
	Hold Up Time (mS)		20 Typ. (ACIN 100V, I _o =100%) Ta=25°C				
	Output Voltage Setting (V)		11.5 to 12.5	14.5 to 15.5	23.0 to 25.0	34.5 to 37.5	46.0 to 50.0
	Output Voltage Variable Range (V)		11.4 to 13.2	14.25 to 16.2	22.8 to 26.4	34.2 to 39.6	45.6 to 52.8
	Over Current Protection		OCP shall not activate unless the current exceeds 105% of the load current.				
	Over Voltage Protection (V) (Latch Off)		13.8 to 16.0	17.2 to 21.0	27.6 to 33.6	41.4 to 50.0	55.2 to 63.0
	Short Protection		Auto recovery				
	Remote On /Off		Model -R、-CR support remote function				
Isolation	Input-Output・RC		AC4,000V 1 minute, Cutoff Current = 10mA (at 25°C)				
	Input-FG		AC2,000V 1 minute, Cutoff Current = 10mA (at 25°C)				
	Output・RC-FG		DC500V 1 minute, Cutoff Current = 25mA (at 25°C)				
Operating Temperature / Humidity / Altitude		-10°C~70°C / 20%RH~90%RH / 5000m max / Non condensing / OVC III for 2000m					
Storage Temperature / Humidity		-20°C~75°C / 20%RH~90%RH / Non condensing					
Vibration		10 - 55Hz, 19.6m/s ² (2G), 3 minutes period, 60 minutes each along X, Y and Z axis					
Impact		JIS-C-0041 half sin wave, 300 m/s ² , 6ms, 3 times each X, Y, and Z axis (196.1m/s ² (20G), 11ms, Once Each X, Y and Z Axis)					
Safety		MEET IEC/EN 62368-1, C-UL (equivalent to CAN / CSA-C22.2No.62368-1), EN60335-1, EN61558-1, complies with DEN-AN, OVC III standard					
EMC		FCC Part15-B, EN(CISPR)55032-B, EN(CISPR)55014-B					
Harmonic Attenuator		Complies with IEC61000-3-2					
Size		160(L)×75(W)×34(H)mm / with chassis and cover: 188(L)×85(W)×47(H)mm					
Cooling Method		Convection					
※1 Parallel a 22uF Low ESR Aluminum Electrolytic Capacitor and 0.1uF ceramics capacitor at the test point. The position of test point is 150mm from output terminal to system load. The bandwidth of oscilloscope is 20MHz. (Please refer to User Manual)							
※2 Drift is the change in DC output for an eight hour period after a half-hour warm-up at 25C, with the input voltage held constant at the rated input / output.							
※ When the specification is exceeded, it may cause a possibility that the components be damaged.							
※ Sound noise may be generated by power supply in case of pulse load.							
※ When the output load is less than 10% of the rated current, the corresponding actions reduce energy loss, output ripples may occur in the pulse waves.							
※ If you have question, please contact us.							

Mechanical Spec

UUHA150 Series



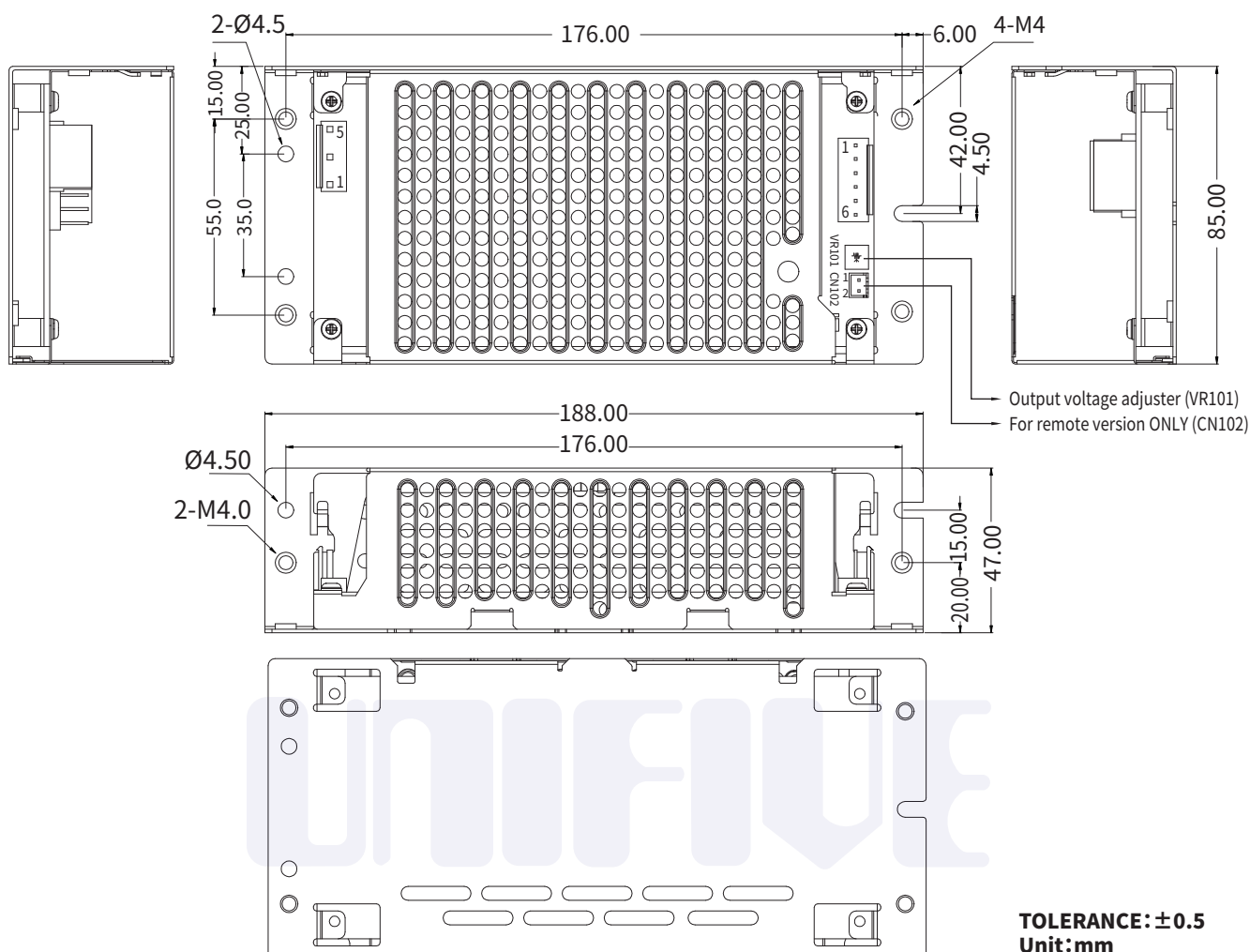
CN1		CN101		CN102	
PIN NUMBER	INPUT	PIN NUMBER	OUTPUT	PIN NUMBER	REMOTE
1	AC(L)	1	-V	1	RC(+)
2	AC(N)	2	-V	2	RC(-)
3	AC(N)	3	-V	CN102 : REMOTE CONNECT Specifications are equivalent to models of JST B2B-XH-A	
4	AC(N)	4	+V		
5	FG	5	+V	CN102 : REMOTE CONNECT Specifications are equivalent to models of JST B2B-XH-A	
CN1 : INPUT CONNECT Specifications are equivalent to models of JST B3P-VH		6	+V		
		CN101 : OUTPUT CONNECT Specifications are equivalent to models of JST B6P-VH			

I/O Connector		Mating connector	Terminal		Mfr.
CN1	5P-VH-B*	VHR-5N	Chain	SVH-21T-P1.1	J.S.T.
			Loose	BVH-21T-P1.1	
CN101	B6P-VH*	VHR-6N	Chain	SVH-21T-P1.1	
			Loose	BVH-21T-P1.1	

Connector		Mating connector	Terminal		Mfr.
CN102	B2B-XH-A*	XHP-2	Chain	SXH-001T-P0.6	J.S.T.
			Loose	BXH-001T-P0.6	

*It may be replaced with the same level substitution.

UUHA150 series with chassis and cover



CN1

PIN NUMBER	INPUT
1	AC(L)
2	AC(N)
3	
4	FG
5	

CN1 : INPUT CONNECT
Specifications are equivalent to models of JST B3P-VH

CN101

PIN NUMBER	OUTPUT
1	-V
2	-V
3	-V
4	+V
5	+V
6	+V

CN101 : OUTPUT CONNECT
Specifications are equivalent to models of JST B6P-VH

CN102

PIN NUMBER	REMOTE
1	RC(+)
2	RC(-)

CN102 : REMOTE CONNECT
Specifications are equivalent to models of JST B2B-XH-A

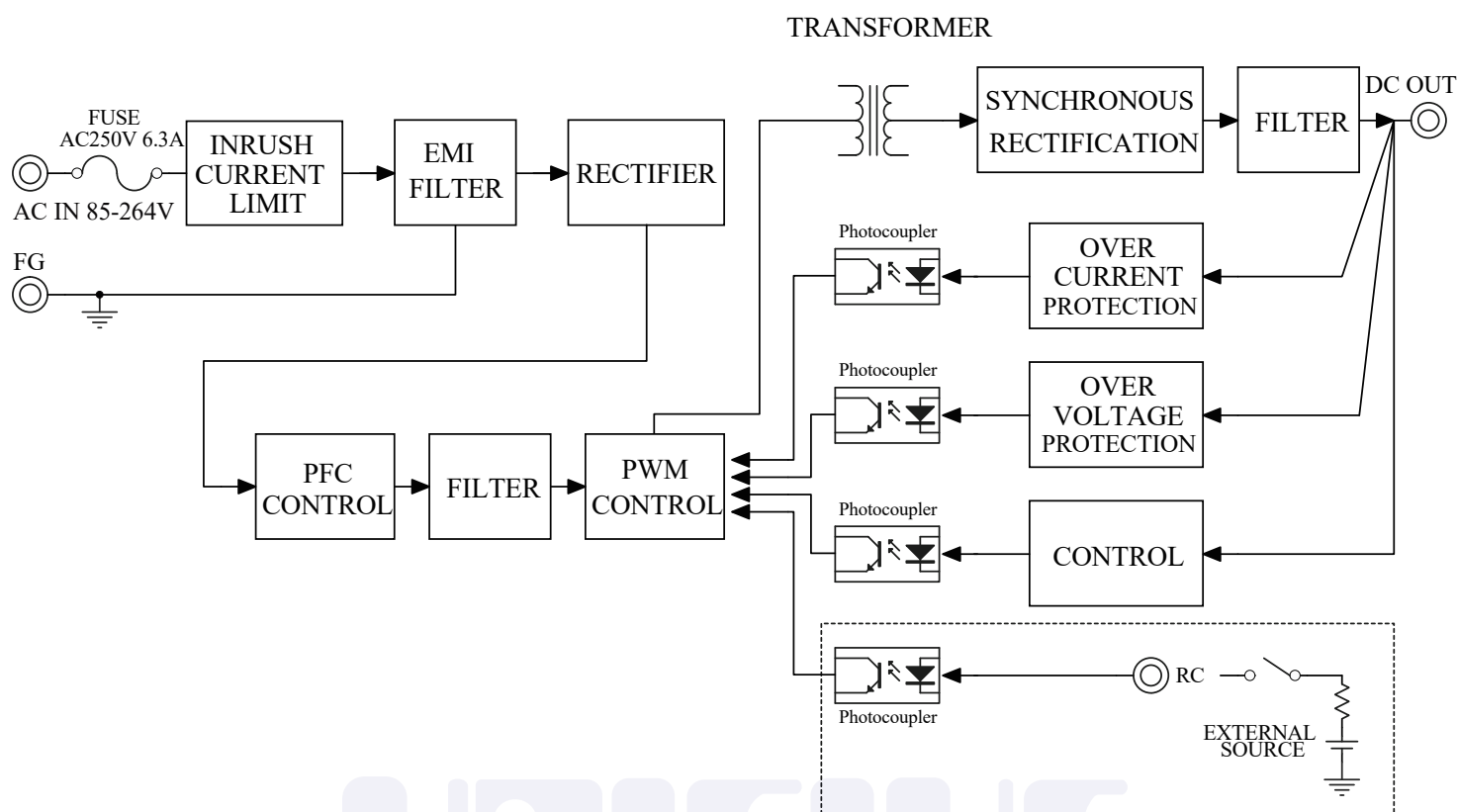
I/O Connector		Mating connector	Terminal		Mfr.
CN1	5P-VH-B*	VHR-5N	Chain	SVH-21T-P1.1	J.S.T.
			Loose	BVH-21T-P1.1	
CN101	B6P-VH*	VHR-6N	Chain	SVH-21T-P1.1	
			Loose	BVH-21T-P1.1	
Connector		Mating connector	Terminal		Mfr.
CN102	B2B-XH-A*	XHP-2	Chain	SXH-001T-P0.6	J.S.T.
			Loose	BXH-001T-P0.6	

*It may be replaced with the same level substitution.

Please refer to catalog and User Manual before use.

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

Block diagram



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