

UUHP 300W Series

Industrial Power Supply

Peak Power

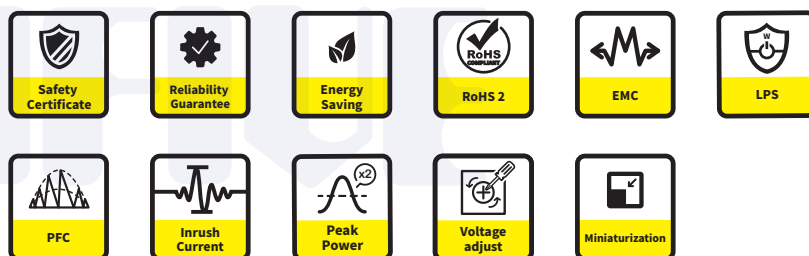
Compact 3.3" × 7"



▲ UUHP300 series

CE UK CA FCC

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



Model Name Definition

UUHP 300 - _ _ _

① ② ③ ④ ⑤

- ① Developed by UNIFIVE
- ② Series Code
- ③ Output Power (W)
- ④ Input Voltage (V)
- ⑤ Function Description
(multiple digits)
 - S: standard version
 - R: w/ remote ON/OFF

Product Highlights

- Stability
- Energy and High Efficiency
- PCB Size 3.3"x 7"(inch)
- 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
- PSE 別表第八
100V-240V 基準に準拠

Efficiency

- up to 93%

Emissions

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

Immunity

- EN55035
- BS EN 55035

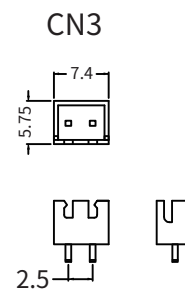
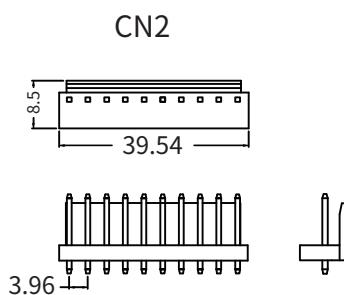
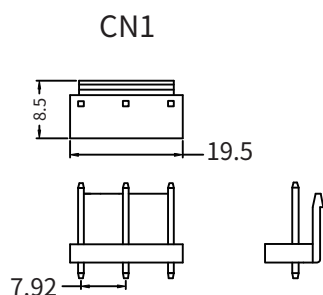
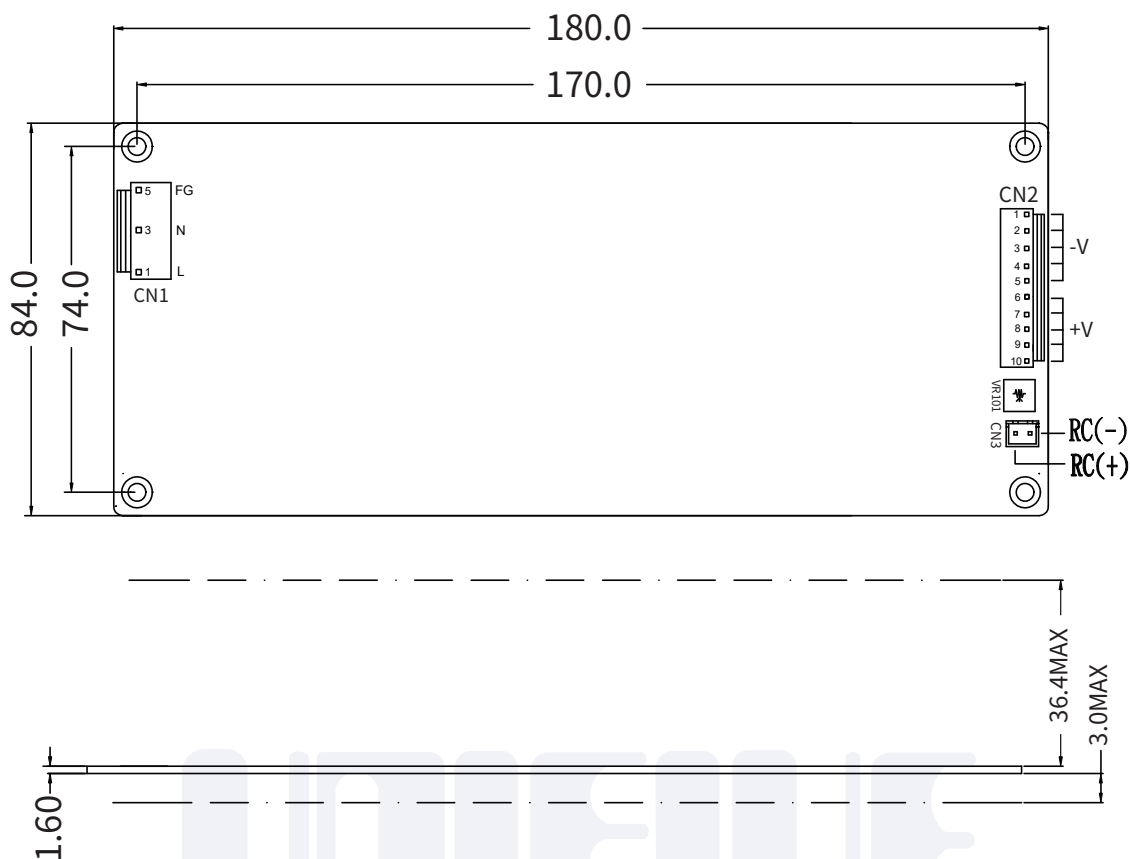
The above specifications include the following test standards

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

more detail on next page

UUHP300 Series			
Model		UUHP300-24S	
Output Wattage Max (Peak Wattage Max) (W) ※1		300W (600W)	
DC Output	Convection	24.0W/12.5A(25.0A)	
Specification			
Input	Voltage (V _{ac})		100/240 (85-264)
	Current (A)	ACIN 100V	3.5
		ACIN 230V	1.75
	Frequency (Hz)		50/60 (47-63)
	Efficiency (%)	ACIN 100V	91.0
		ACIN 230V	93.0
	Power Factor	ACIN 100V	0.99
		ACIN 230V	0.93
	Inrush Current (A)	ACIN 100V	30/60 Typ. (I _o =100%) Ta=25°C at cold start
ACIN 230V		60 Typ. (I _o =100%) Ta=25°C at cold start	
Leakage Current (mA _{max})		0.5mA r.m.s or 0.707mA peak(ES1) (ACIN 100V/240V 60Hz, I _o =100%, According to IEC62368 Class I)	
Output	Voltage (V)		24.0
	Current (A)		12.5
	Line Regulation (mV _{max})		96
	Load Regulation (mV _{max})		150
	Ripple (mVp-p) (0°C to +50°C) ※2		300
	Ripple (mVp-p) (-10°C to 0°C) ※2		380
	Noise (mVp-p) (0°C to +50°C) ※2		390
	Noise (mVp-p) (-10°C to 0°C) ※2		500
	Temperature Regulation (mV _{max})	0 to +50°C	240
		-10 to +50°C	290
	Drift (mV _{max}) ※3		96
	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)		24.0 to 24.96
	Output Voltage Variable Range (V)		10.8 to 13.2
	Over Current Protection		Over 106% of Peak Current; Auto-Recovery
	Over Voltage Protection (V) (Latch Off)		27.6 to 33.6
	Short Protection		Auto recovery
	Remote On /Off ※4		Model -R 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	
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		IEC/EN 62368, UL 62368	
EMC		FCC-B, VCCI-B, CISPR32-B, EN55011-B, EN55032-B	
Harmonic Attenuator		Complies with IEC61000-3-2	
Size		180(L)×84(W)×41(H)mm	
Cooling Method		Convection / Forced Air	
※ 1 Power supply can be operated in condition of peak load 300W for 10 seconds and the duty is less than 0.5. (Please refer to User Manual)			
※ 2 Parallel a 22uF 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)			
※ 3 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.			
※ 4 You can use the 5V output voltage (built-in) for control without adding additional power supply.			
※ 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.			

UUHP300 Series



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

CN2	
PIN NUMBER	OUTPUT
1,2,3,4,5	V-
6,7,8,9,10	V+
CN2 : OUTPUT CONNECT Specifications are equivalent to models of JST B10P-VH	

CN3	
PIN NUMBER	REMOTE
1	RC(+)
2	RC(-)
CN3 : REMOTE CONNECT Specifications are equivalent to models of JST B2B-XH-A	