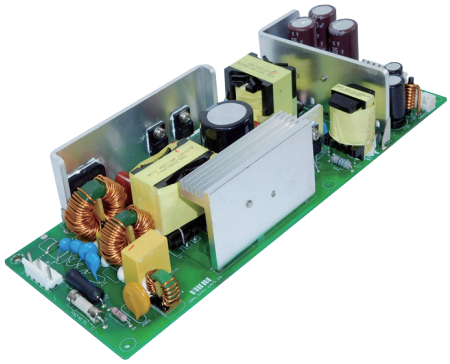
UOHL 240W Series

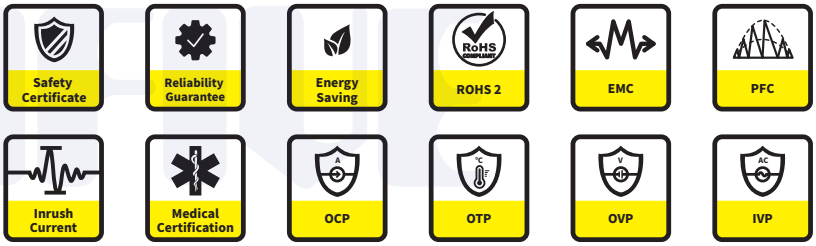
Industrial Power Supply



▲ UOHL3240 Series

▲ UOHL3240 Series with Chassis

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



Model Name Definition

U O H L 3 2 4 0 - _ _ _ _ - _

① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨

① UNIFIVE Product
② Serial Name
③ Serial Name
④ Serial Name
⑤ Serial Name
⑥ Output Power Rating
⑦ Output Voltage
⑧ Output Current
⑨ Optional Items

- N Typical Type
- R Remote Control and Increase Output (5V, 2A)
- S Increase Output (5V, 2A)
- CN Typical Type with Chassis
- CR Remote Control and Increase Output (5V, 2A) with Chassis
- CS Increase Output (5V, 2A) with Chassis

5 years warranty

Caution!Do not twist or bend the printed circuit board since SMD components were soldered on it.

Be sure to do the necessary test for the equipment of end user which supplied power by this switching power supply and following the specifications of EMC/EMI.

Product Highlights

- Stability
- Conditional Peak Output Up to 480W
- Meet Complies with IEC61000-3-2
- Energy Efficiency
- Power Factor Correction
- Full Range Input Voltage (85Vac~264Vac)
- Inrush Current Limit
- Operating Altitude Up to 5,000m
- Add Internal Standby Power (5V) Supplied Power for Remote Control
- JST Connector* or the same level substitute as JST Connector
  *Please contact sales if demanding JST connector.
- Appendix 8 of PSE : Comply with Dusty Requirement.

Protection

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

Safety Standard

- 60065-1
- 60335-1
- 60601-1
- 60950-1
- 61558-1
- 62368-1
- PSE 別表第八 100V 基準に準拠

Efficiency

- up to 89%

Emissions

- FCC Part18 Class B
- CE CISPR 11 EN55011
- VCCI Class B
- CE CISPR 14 EN55014-1
- FCC Part15 Class B
- CE CISPR 32 EN55032
- BS EN 55032
- BS EN55011
- BS EN55014-1

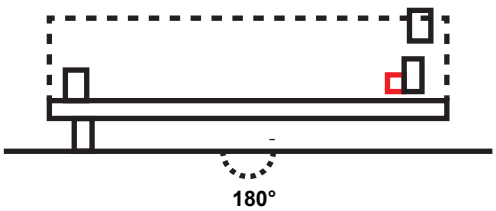
*Power supply mounted in user's metal chassis.

Immunity

- EN 55035
- BS EN 55035
- EN60601-1-2
- BS EN60601-1-2
- EN55014-2
- BS EN55014-2

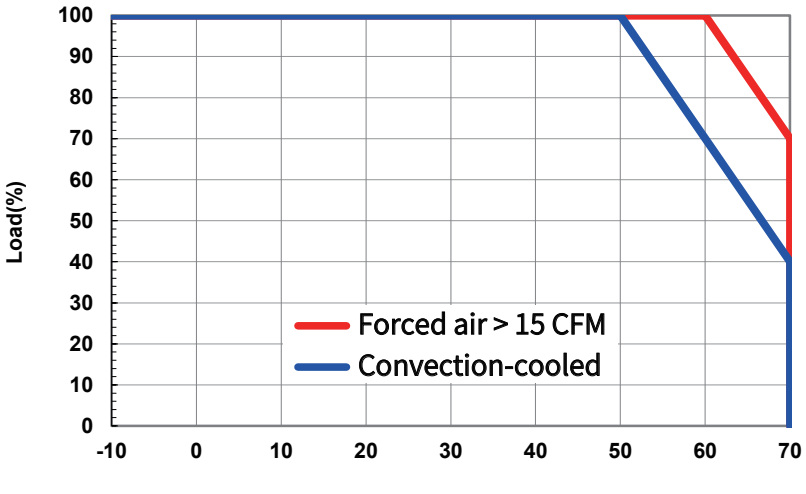
Derating Curve of Operating Ambient

Power Supply Positioning:



Horizontal

Derating Curve:



Electrical Spec

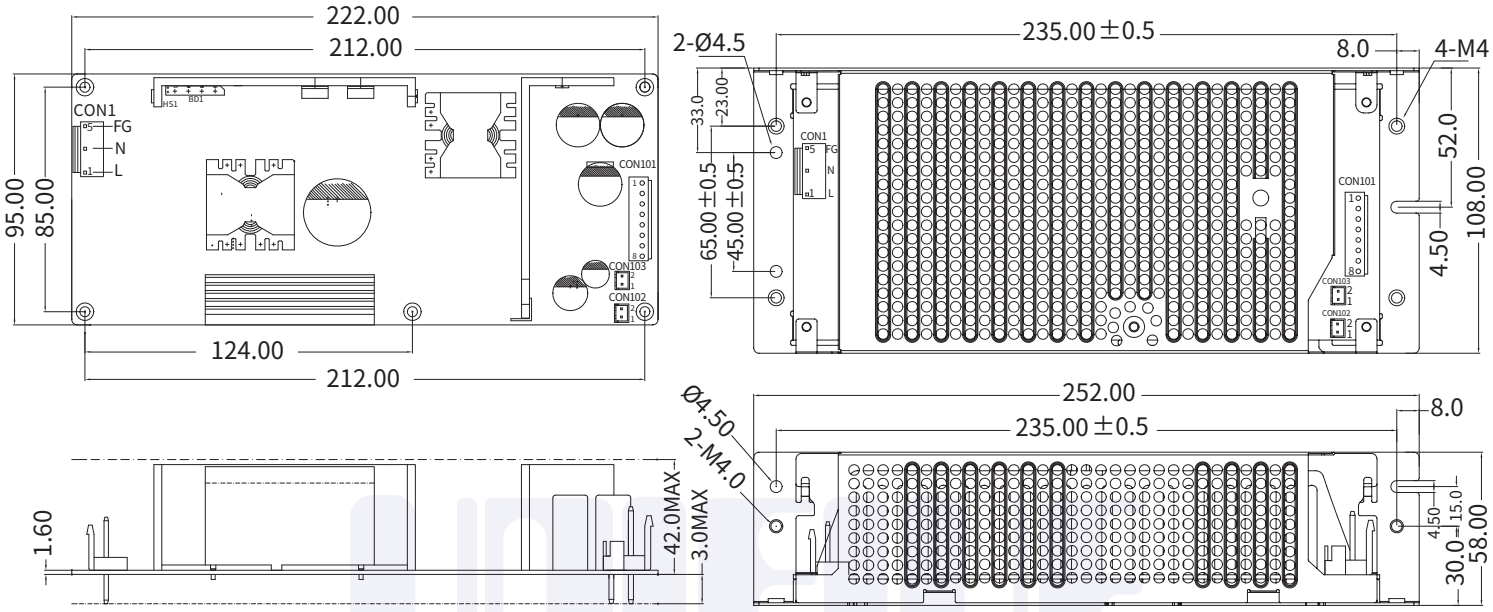
UOHL3240 Series				
Model			UOHL3240-2410	
Output			Output 1	Output 2 (Option)
Output Wattage Max.(W)			300W (480W(*1))	10W
DC Output		Convection	24.0V / 10.0A (20.0A(*1))	5.0V / 2.0A
DC Output		Forced Air(*2)	24.0V / 12.5A (20.0A(*1))	5.0V / 2.0A
Specifications				
Input	Voltage (V)		85Vac~264Vac	
	Current (A)	ACIN 100V	3.6A Typical (Io=100%)	
		ACIN 200V	1.8A Typical (Io=100%)	
	Frequency (Hz)		50Hz/60Hz (47Hz~63Hz)	
	Efficiency (%)	ACIN 100V	87.0% Typical	
		ACIN 200V	89.0% Typical	
	Power Factor (%)	ACIN 100V	0.99 Typical	
		ACIN 200V	0.95 Typical	
	Inrush Current (A)	ACIN 100V	15A/30A Typical (Full Load, Cold Start, Ta=25°C)/Restart After More than 3sec.	
		ACIN 200V	30A/30A Typical (Full Load, Cold Start, Ta=25°C)/Restart After More than 3sec.	
	Leakage Current (mA)		0.4/0.75 Max. (ACIN 100V/240V 60Hz,Io=100%, According to IEC60950-1)	
Output	Voltage (V)		24.0V	5.0V
	Currrent (A)		10.0A	2.0A
	Line Regulation (mV)		48mV,Max.	40mV,Max.
	Load Regulation (mV)		76mV,Max.	40mV,Max.
	Ripple(mVp-p) (0°C to +50°C) (*3)		120mV,pk-pk	50mV,pk-pk
	Ripple(mVp-p) (-10°C to 0°C) (*3)		160mV,pk-pk	90mV,pk-pk
	Noise(mVp-p) (0°C to +50°C) (*3)		150mV,pk-pk	100mV,pk-pk
	Noise(mVp-p) (-10°C to 0°C) (*3)		180mV,pk-pk	140mV,pk-pk
	Temperature Regulation (mV)	0 to +50°C	240mV,Max.	-
		-10 to +50°C	290mV,Max.	-
	Drift (mV)(*4)		48mV,Max.	-
	Start-Up Time (mS)		500 Typical (ACIN 100V, Full Load) , at 25°C	
	Hold-Up Time (mS)		20 Typical (ACIN 100V, Full Load) , at 25°C	
	Output Voltage Setting (V)		24.00V~24.96V	4.75V~5.25V
	Output Voltage Variable Range (V)		21.6V~27.5V	-
	Over Current Protection		Over 101% of Peak Current ; Latch Off	3.0A Min. ; Latch Off
	Over Voltage Protection		27.6V~33.6V; Latch Off	9.5V Max. ; Latch Off
	Short Protection		Latch Off	
	Remote On/Off		Option	
Isolation	Input-Output.RC		AC4,000V 1Minute, Cutoff Current = 10mA (at Room Temperature)	
	Input-FG		AC2,000V 1Minute, Cutoff Current = 10mA (at Room Temperature)	
	Output.RC-FG		DC500V 1Minute, Cutoff Current = 25mA (at Room Temperature)	
Operating Temperature/Humidity/Altitude			-10°C~70°C / 20%RH~90%RH /5 000m Max. (Derating is Required)	
Storage Temperature/Humidity			-20°C~75°C / 20%RH~90%RH	
Vibration			10 - 55Hz, 19.6m/s2 (2G), 3Minutes Period, 60Minutes Each along X, Y and Z Axis	
Impact			JIS-C-0041 Half Sin Wave, 300 m/s2 , X, Y, Z, 6ms, 3 Times for Each Direction. (196.1m/s2 (20G), 11ms, Once Each X, Y and Z Axis)	
Safety			UL 60950, EN 60950, UL 62368, EN 62368	
EMC			Meet VCCI Class B , FCC Class B , CISPR 32 Class B , EN55032	
Harmonic Attenuator			Meet IEC61000-3-2	
Size			no Chassis:222(L)*95(W)*45(H)mm with Chassis:252(L)X108(W)X58(H)mm	
Cooling Method			Convection / Forced Air	

- 1. Power supply can be operated in condition of peak load 480W for 10 seconds and the duty is less than 0.5. Average current must equals to or less than 10.0A.
- 2. Condition for forced air is no less than 15CFM.
- 3. 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.
- 4. 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.

Mechanical Spec

UOHL3240-2410

UOHL3240-2410-C_



Mounting Holes：5-Ø3.50

TOLERANCE：±0.5
Unit：mm

CON1

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

CON1 : INPUT CONNECT
MODEL : B5P-VH
(THE EQUIVALENT)

CON102

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

CON102: REMOTE CONNECT
MODEL : B2B-XH-A
(THE EQUIVALENT)

CON103

PIN NUMBER	OUTPUT
1	5V(+)
2	5V(-)

CON103:OUTPUT CONNECT
MODEL : B2B-XH-A
(THE EQUIVALENT)

CON101

PIN NUMBER	OUTPUT
1-4	-V
5-8	+V

CON101:OUTPUT CONNECT
MODEL : B8P-VH
(THE EQUIVALENT)

Please contact our sales department for details of each model