UOHC 240W Series



Industrial Power Supply





▲ UOHC3240 Series

UOHC3240 Series with Chassis



Model Name Definition

UOHC3240-____-

- 1 UNIFIVE Product
 - 2 Serial Name
 - 3 Serial Name
 - (4) Serial Name
- 5 Serial Name
- 6 Output Power Rating
- Output Voltage
- (8) Output Current
- (9) Optional Items
 - N Typical Type
 - R Remote Control and
 - Increase Output (5V, 1A)
 - S Increase Output (5V, 1A)
 - CN Typical Type with Chassis
 - CR Remote Control and
 - Increase Output (5V, 1A) with Chassis
 - CS Increase Output (5V, 1A) 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.

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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
- **6**0601-1
- 60950-1
- 61558-1
- 62368-1
- PSE 別表第八 100V 基準に準拠

E<mark>fficiency</mark>

■ 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
- BS EN55014-2
- EN55014-2

more detail on next page

Electrical Spec



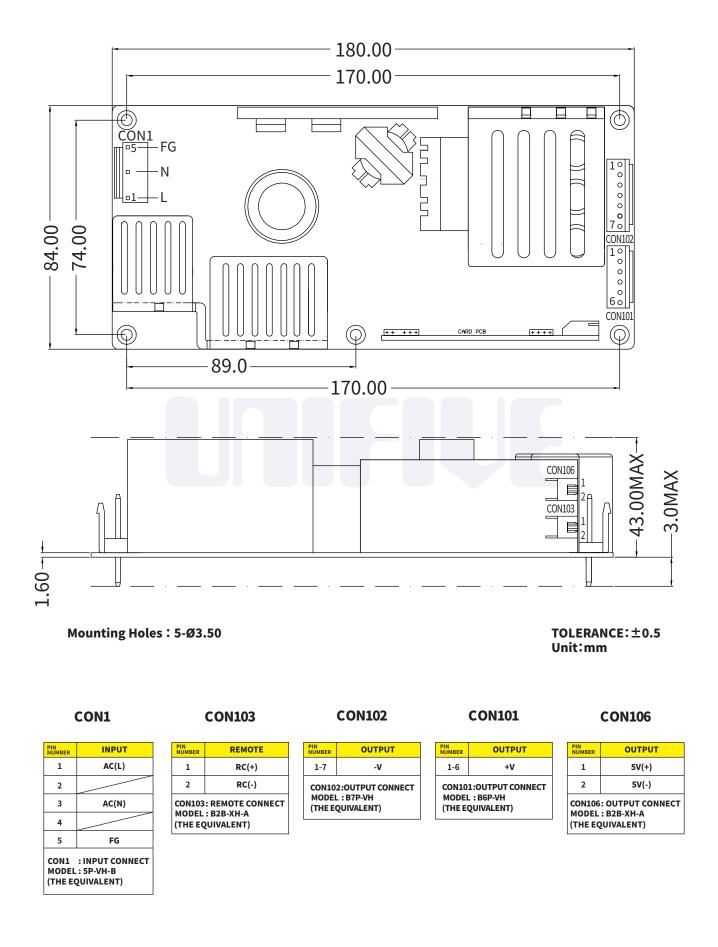
Model			UOHC3240-2410	UOHC3240-3606	UOHC3240-4805	5V	
Output				Output 1		Output 2 (Option	
Output Wattage Max.(W)			240W (480W(*1)) 5W				
DC Output Convection			24.0V/10.0A (20.0A(*1))	36.0V / 6.67A (13.33A(*1))	48.0V / 5.0A (10.0A(*1))	5.0V/1.0A	
DC Output Forced Air (*2)		24.0V/12.5A (20.0A(*1))	36.0V / 8.33A (13.33A(*1))	48.0V / 6.25A (10.0A(*1))	5.0V/1.0A		
				ifications	, (, , , , , , , , , , , , , , , , , ,	,	
	Volta		opee	85Vac~2	264Vac		
Input	Current (A)	ACIN 100V	3.6A Typical (Io=100%)				
		ACIN 200V	1.8A Typical (Io=100%)				
	Frequer		50Hz/60Hz (47Hz~63Hz)				
	Frequency (Hz)		88.0% Typical				
	Efficiency (%)	ACIN 200V	90.0% Typical				
	Dowor	ACIN 100V	0.99 Typical				
	Power Factor (%)	ACIN 200V	0.95 Typical				
	. ,	ACIN 100V	15.0A/30.0A Typ.(Full Load, Cold Start, Ta=25°C)/Restart After More than 3sec.				
	Inrush Current (A)	ACIN 200V	30.0A/30.0A Typ.(Full Load, cold Start, Ta=25°C)/Restart After More than 3sec.				
	Leakage Cu		0.4/0.75 Max. (ACIN 100V/200V 60Hz, Io=100%, According to IEC60950-1, IEC62368-1 and DEN-AN)				
	<u> </u>		24.0V	36.0V	48.0V	5.0V	
	Voltage (V) Current (A)		10.0A	6.67A	5.0A	1.0A	
	Line Regul		96mV,Max.	144mV,Max.	192mV,Max.	40mV,Max.	
			150mV,Max.	240mV,Max.	240mV,pk-pk	40mV,Max.	
	Load Regulation (mV) Ripple (mVp-p) (0°C to +50°C) (*3)		120mV,pk-pk	150mV,pk-pk	150mV,pk-pk	50mV,pk-pk	
	Ripple (mVp-p) (-10°C to 0°C) (*3)		160mV,pk-pk	200mV,pk-pk	200mV,pk-pk	90mV,pk-pk	
	Noise (mVp-p) ($^{-10}$ C to $^{+50}$ C) ($^{+3}$)		150mV,pk-pk	250mV,pk-pk	250mV,pk-pk	100mV,pk-pk	
Output	Noise (mVp-p) (0 C to 450 C) (3) Noise (mVp-p) (-10°C to 0°C) (*3)		180mV,pk-pk	300mV,pk-pk	300mV,Max.	140mV,pk-pk	
	Temperature Regulation (mV)	0 to +50°C	240mV,Max.	360mV,Max.	480mV,Max.		
		-10 to +50°C	290mV,Max.	450mV,Max.	600mV,Max.		
	Drift (n		96mV,Max.	144mV, Max.	192mV,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)		24.0V~24.96V	36.0V~37.44V	48.0V~49.92V	4.75V~5.25V	
	Output Voltage Variable Range (V)		21.6V~27.5V	32.4V~39.6V	39.6V~52.8V	-	
			Over 101% of Peak Current;	Over 101% of Peak Current;	Over 101% of Peak Current ;	1.5A Min. ;	
	Over Current Protection		Latch Off	Latch Off	Latch Off	Auto-Recovery	
	Over Voltage Protection		27.6V~33.6V; Latch Off	41.4V~50.4V; Latch Off	55.2V~63.0V; Latch Off	9.5V Max; Latch Off	
	Short Protection		Latch Off	Latch Off	Latch Off	Auto-Recovery	
	Remote On /Off		Option				
	Input-Output.RC		AC4,000V 1Minute, Cutoff Current = 10mA (at Room Temperature)				
solation	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 / 5000m max. (Derating is Required)				
St	orage Temperature	/Humidity	-20°C~75°C / 20%RH~90%RH 10 - 55Hz, 19.6m/s2 (2G), 3 Minutes Period, 60 Minutes Each along X, Y and Z Axis				
	Vibration		10 - 55Hz, 1	19.0m/SZ (ZG), 3 Minutes Perio	u, ou minutes Each along X, Y a	na Z AXIS	
	Impact		JIS-C-00	41 Half Sin Wave, 300m/s2 , X, (196.1m/s2 (20G), 11ms, Onc	Y, Z, 6ms, 3 Times for Each Dir e Each X, Y and Z Axis)	ection.	
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:180(L)X84(W)X46(H)mm with Chassis:212(L)X98(W)X59(H)mm				
	Cooling Metho	d		Convection /	Forced Air		
1. Power	supply can be oper	ated in condition of	peak load 480W for 10 second	ds and the duty is less than 0.5	j.		
2 Candit	ion for forced air is	no less than 15CFM.					

• 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.

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UOHC3240-2410



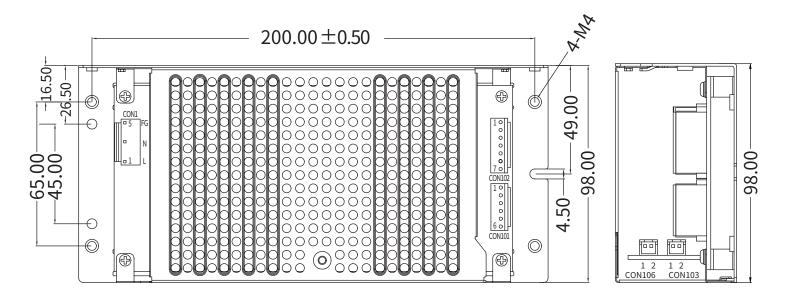
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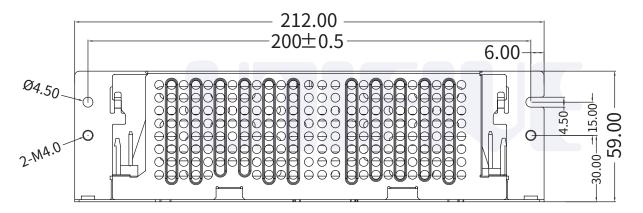
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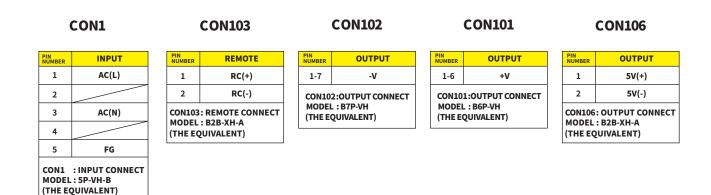


UOHC3240-2410-C_





TOLERANCE:±0.5 Unit:mm



Please contact our sales department for details of each model

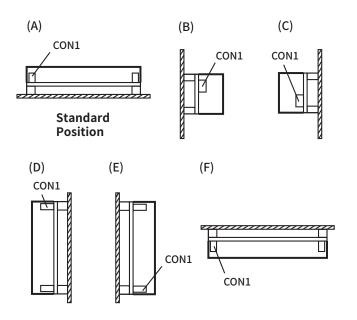
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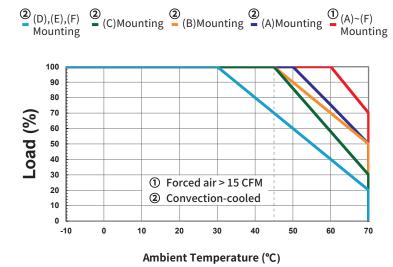
Mounting methods and derating curve



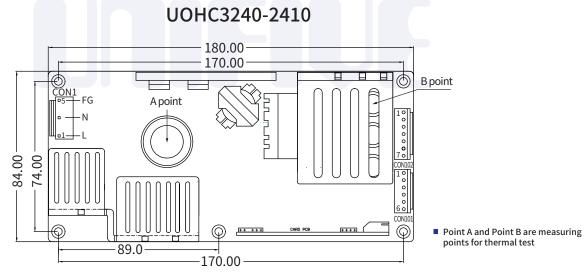
Power Supply Positioning:



Measuring points and thermal test:



Point A and point B are indicated in mechanical spec:



Mounting	Cooling	Lood fastor	Max temperature	
Method	Method	Load factor	Point A(°C)	Point B(°C)
	Convection	75% < Io≦ 100%	80	89
A		50% < Io≦ 75%	83	89
		0% <io≦50%< td=""><td>87</td><td>92</td></io≦50%<>	87	92
	Convection	75% <io≦ 100%<="" td=""><td>85</td><td>82</td></io≦>	85	82
В		50% < Io≦ 75%	87	86
		0% < Io≦ 50%	91	91
	Convection	75% < Io≦ 100%	74	75
С		50% < Io≦ 75%	76	78
		0% < Io≦ 50%	79	80
	Convection	75% < Io≦ 100%	57	58
D		50% < Io≦ 75%	64	64
		0% < Io≦ 50%	72	72
		75% < Io≦ 100%	57	82
E	Convection	50% < Io≦ 75%	62	79
		0% < Io≦ 50%	70	83
		75% < Io≦ 100%	64	71
F	Convection	50% < Io≦ 75%	68	74
		0% < Io≦ 50%	75	79
	Forced air	70% < Io≦ 100%	66	69
A,B,C,D,E,F	Forced all	0% < Io≦ 70%	43	46

