UOHL 3240

UNIFIVE
2018.10.12

AC/DC 240W Power Supply

▲ UOHL3240

CE RoHS

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

Safety Certificate | Reliability Guarantee | EMC | PFC | Inrush Current | OCP | OTP | OVP | IVP

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 icreasing output（5V , 2A）
- S Increase output (5V, 2A)

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 effciency
- 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

Protection

- Short circuit protection
- Over voltage protection
- Over current protection
- Over temperature protection
- Brown in and brown out protection

Safety Approvals

MEET

- IEC60950
- EN60950
- UL60950
- IEC62368
- EN62368
- UL62368

Efficiency

- up to 89%

Emissions

MEET

- EN55011-B
- EN55032-B
- FCC-B
- CISPR32-B
- VCCI-B

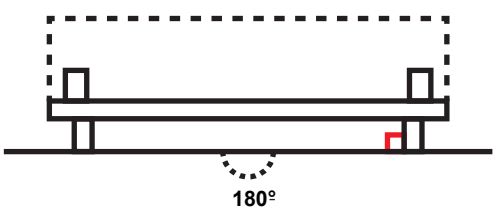
Immunity

MEET

- EN61204-3
- EN61000-6-2
- EN61000-4-2
- EN61000-4-3
- EN61000-4-4
- EN61000-4-5
- EN61000-4-6
- EN61000-4-8
- EN61000-4-11

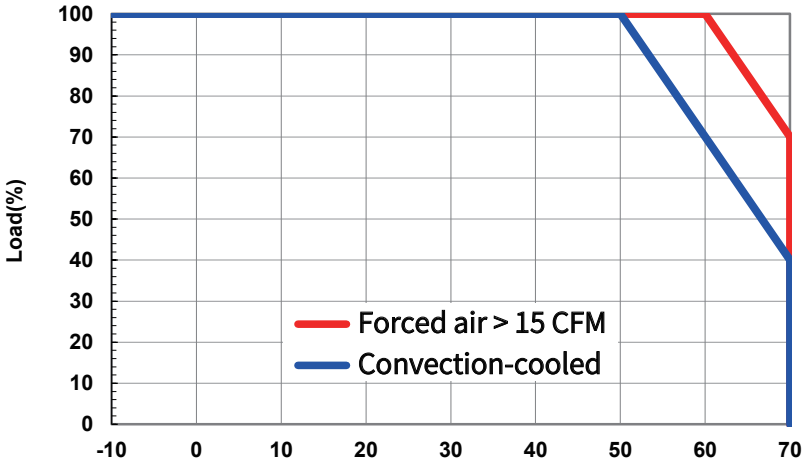
Derating curve of operating ambient

Power Supply Positioning:



Horizontal

Derating Curve:



Electrical Spec

2018.10.12

UOHL3240-2410

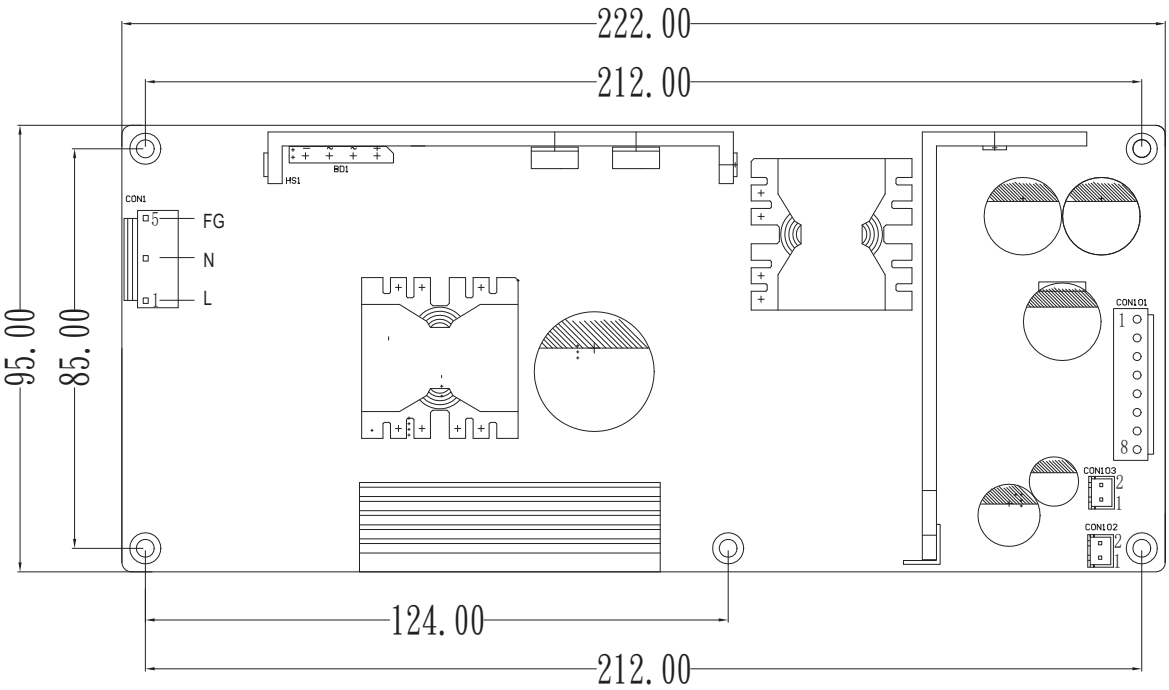
MODEL		UOHL3240-2410	
OUTPUT		OUTPUT1	OUTPUT2(OPTION)
MAX OUTPUT WATTAGE(W)		300W(480W(*1))	10W
DC OUTPUT	Convection	24V 10A(20A(*1))	5V 2A
DC OUTPUT	Forced air(*2)	24V 12.5A(20A(*1))	5V 2A

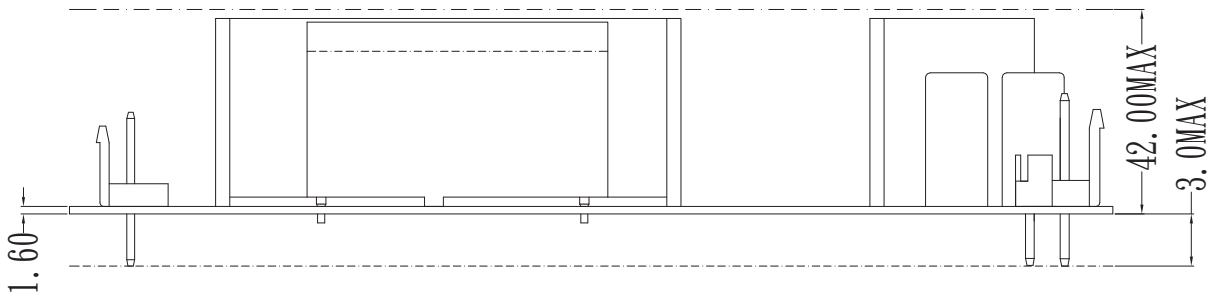
SPECIFICATIONS

	MODEL		UOHL3240-2410	
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	0.95typical	
	INRUSH CURRENT(A)	ACIN 100V	15A/30A Typ.(Full Load, cold start, Ta=25 °C)/restart after more than 3sec.	
		ACIN 200V	30A/30A Typ.(Full Load, cold start, Ta=25 °C)/restart after more than 3sec.	
	LEAKAGE CURRENT(mA)		0.4/0.75max(ACIN 100V/240V 60Hz,Io=100%, According to IEC60950-1)	
OUTPUT	VOLTAGE(V)		24V	5V
	CURRENT(A)		10A	2A
	LINE REGULATION(%)		48mV,max.	40mV
	LOAD REGULATION(%)		76mV,max.	40mV
	RIPPLE(mVp-p) (0°C to +50°C) (*3)		120mV,max.	50mV,pk-pk
	RIPPLE(mVp-p) (-10°C to 0°C) (*3)		160mV,max.	90mV,pk-pk
	RIPPLE NOISE(mVp-p) (0°C to +50°C) (*3)		150mV,max.	100mV,pk-pk
	RIPPLE NOISE(mVp-p) (-10°C to 0°C) (*3)		180mV,max.	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	-
	OVERCURRENT PROTECTION		over 101% of peak current ; latch off	3A min ; latch off
	OVERVOLTAGE PROTECTION		27.6V~33.6V; latch off	9.5V max ; latch off
	SHORT PROTECTION		latch off	
	REMOTE ON/OFF		option	
ISOLATION	INPUT-OUTPUT.RC		AC3,000V 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/5000m 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			meet EN 60950, UL 60950, IEC 60950, EN 62368, UL 62368, IEC 62368	
EMC			meet EN 55032 class B, EN 55024	
HARMONIC ATTENUATOR			meet IEC61000-3-2	
SIZE			95*45*222mm(3.74*1.77*8.74 inches)(W*H*D)	
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 10A.
- 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.

UOHL3240-2410





Mounting Holes：5-Ø3.80

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

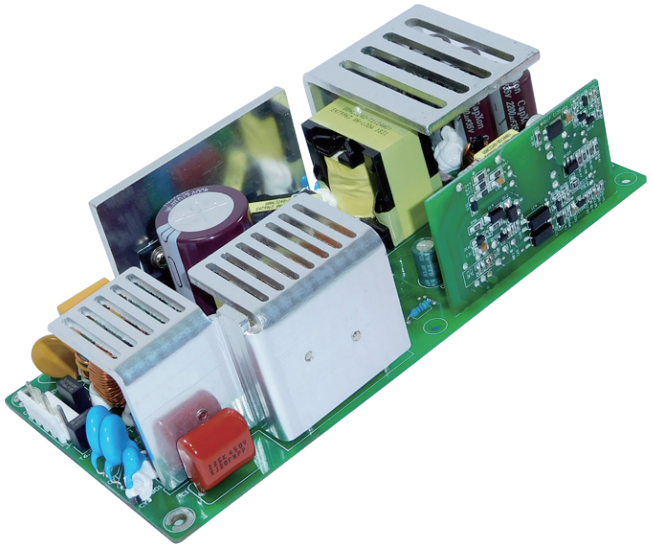
CON101:OUTPUT CONNECT
MODEL : B8P-VH
(THE EQUIVALENT)

Please contact our sales department for details of each model

UOHC 3240

UNIFIVE
2018.10.16

AC/DC 240W Power Supply



▲ UOHC3240

CE RoHS

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Safety Certificate | Reliability Guarantee | EMC | PFC | Inrush Current | OCP | OTP | OVP | IVP

Model Name Definition

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⑥ OUTPUT POWER RATING
⑦ OUTPUT VOLTAGE
⑧ OUTPUT CURRENT
⑨ OPTIONAL ITEMS

- N typical type
- R Remote Control and icreasing output (5V,1A)
- S Increase output (5V,1A)

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
- Small size
- Conditional peak output up to 480W
- Meet complies with IEC61000-3-2
- Energy effciency
- 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

Protection

- Short circuit protection
- Over voltage protection
- Over current protection
- Over temperature protection
- Brown in and brown out protection

Safety Approvals

MEET

- IEC60950
- EN60950
- UL60950
- IEC62368
- EN62368
- UL62368

Efficiency

- up to 90%

Emissions

MEET

- EN55011-B
- EN55032-B
- FCC-B
- CISPR32-B
- VCCI-B

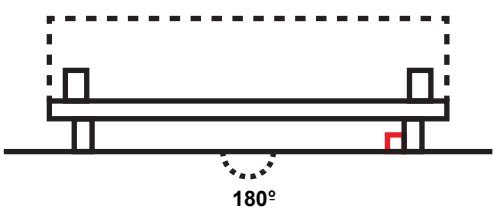
Immunity

MEET

- EN61204-3
- EN61000-6-2
- EN61000-4-2
- EN61000-4-3
- EN61000-4-4
- EN61000-4-5
- EN61000-4-6
- EN61000-4-8
- EN61000-4-11

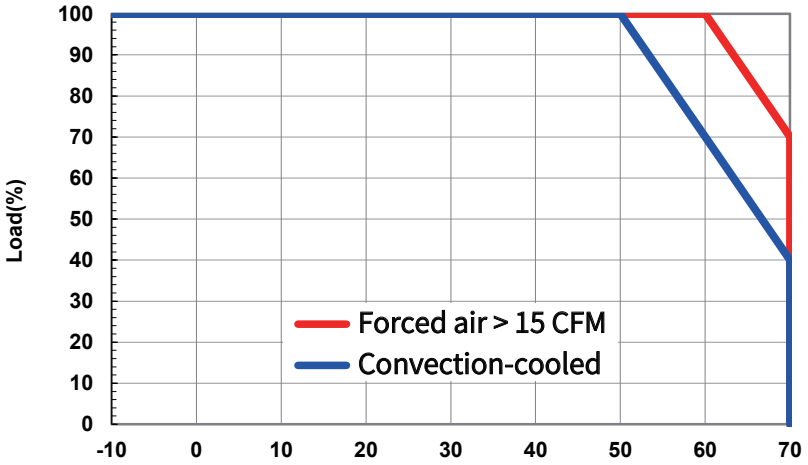
Derating curve of operating ambient

Power Supply Positioning:



Horizontal

Derating Curve:



UOHC3240-2410

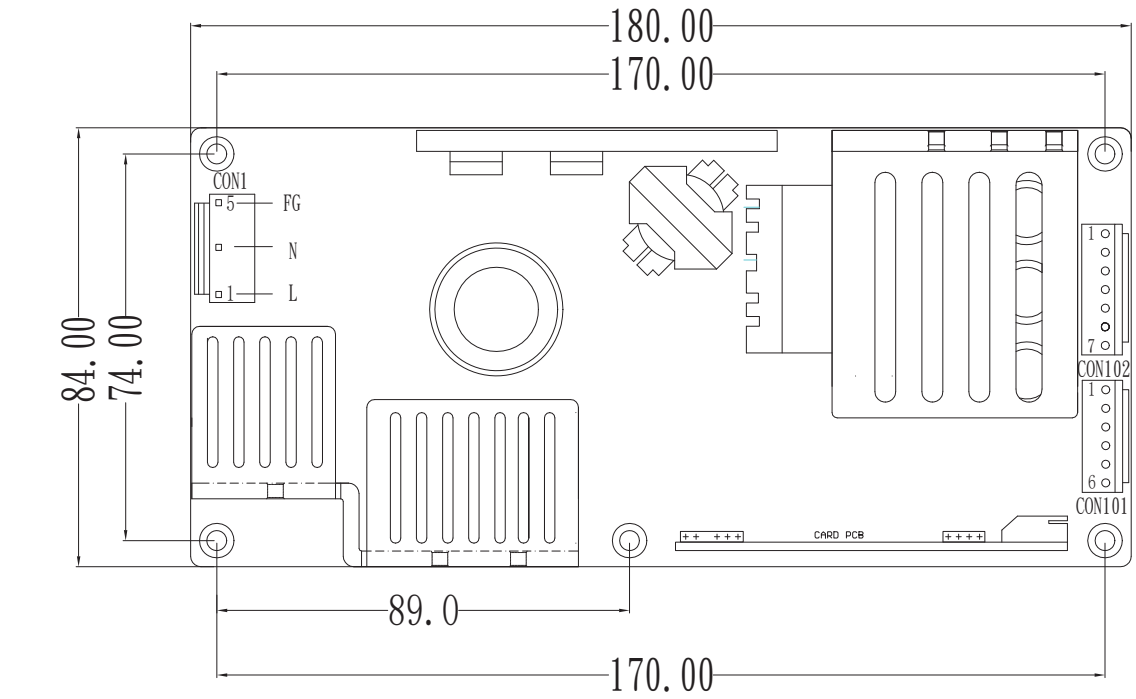
MODEL		UOHC3240-2410	
OUTPUT		OUTPUT1	OUTPUT2(OPTION)
MAX OUTPUT WATTAGE(W)		300W(480W(*1))	5W
DC OUTPUT	Convection	24V 10A(20A(*1))	5V1A
DC OUTPUT	Forced air(*2)	24V 12.5A(20A(*1))	5V1A

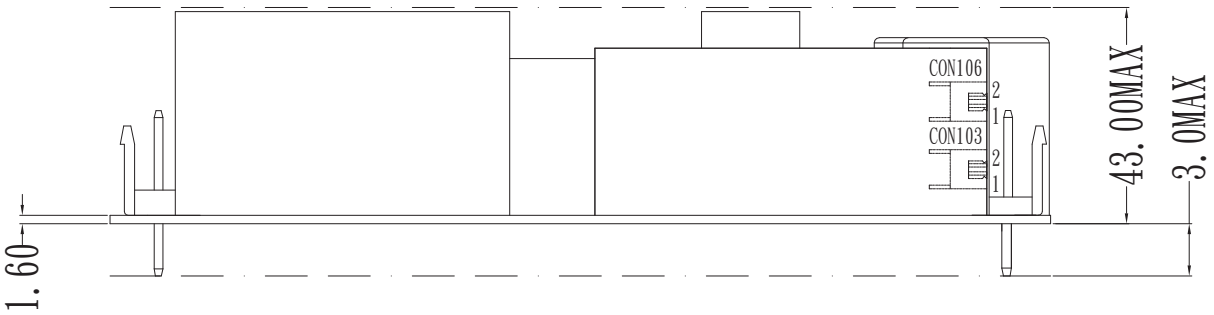
SPECIFICATIONS

	MODEL		UOHC3240-2410	
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	88.0% typical	
		ACIN 200V	90.0% typical	
	POWER FACTOR(%)	ACIN 100V	0.99 typical(Io=100%)	
		ACIN 200V	0.95 typical(Io=100%)	
	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)		0.4/0.75max(ACIN 100V/240V 60Hz,Io=100%, According to IEC60950-1)	
OUTPUT	VOLTAGE(V)		24V	5V
	CURRENT(A)		10A	1A
	LINE REGULATION(%)		96mV,max.	40mV
	LOAD REGULATION(%)		150mV,max.	40mV
	RIPPLE(mVp-p) (0°C to +50°C)(*3)		120mV,max.	50mV,pk-ps
	RIPPLE(mVp-p) (-10°C to 0°C)(*3)		160mV,max.	90mV,pk-ps
	RIPPLE NOISE(mVp-p) (0°C to +50°C) (*3)		150mV,max.	100mV,pk-ps
	RIPPLE NOISE(mVp-p) (-10°C to 0°C) (*3)		180mV,max.	140mV,pk-ps
	TEMPERATURE REGULATION(mV)	0 to +50°C	240mV,max.	-
		-10 to +50°C	290mV,max.	-
	DRIFT(mV)(*4)		96mV,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	-
	OVERCURRENT PROTECTION		over 101% of peak current ; latch off	1.5A min ; auto-recovery
	OVERVOLTAGE PROTECTION		27.6V~33.6V; latch off	9.5V max ; latch off
	SHORT PROTECTION		latch off	auto-recovery
	REMOTE ON/OFF		option	
ISOLATION	INPUT-OUTPUT.RC		AC3,000V 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/5000m 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			meet EN 60950, UL 60950, IEC 60950, EN 62368, UL 62368, IEC 62368	
EMC			meet EN 55032 class B, EN 55024	
HARMONIC ATTENUATOR			meet IEC61000-3-2	
SIZE			84*46*180mm(3.31*1.81*7.09 inches)(W*H*D)	
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 10A.
- 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.

UOHC3240-2410





Mounting Holes：5-Ø3.80

TOLERANCE：±0.5
Unit：mm

CON1

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

CON1 : INPUT CONNECT
MODEL : 5P-VH-B
(THE EQUIVALENT)

CON103

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

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

CON102

PIN NUMBER	OUTPUT
1-7	-V

CON102:OUTPUT CONNECT
MODEL : B7P-VH
(THE EQUIVALENT)

CON101

PIN NUMBER	OUTPUT
1-6	+V

CON101:OUTPUT CONNECT
MODEL : B6P-VH
(THE EQUIVALENT)

CON106

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

CON106: OUTPUT CONNECT
MODEL : B2B-XH-A
(THE EQUIVALENT)

Please contact our sales department for details of each model