COTEK

200W Single Output with PFC Function UP-200 series

Features:

- Universal AC input / Full range
- Built in active PFC function, PF > 0.90
- Power OK signal
- U-bracket low profile: 38mm
- Withstand 2G vibration test
- Protection: OVP, OLP, OTP, SCP
- 3 years warranty

MODEL		UP-200-12	UP-200-15	UP-200-24	UP-200-48
Output	DC Voltage Range	12V	15V	24V	48V
	Rated Current	16.7A	13.4A	8.4A	4.2A
	Current Range	0 ~ 16.7A	0 ~ 13.4A	0 ~ 8.7A	0 ~ 4.2A
	Rated Power	200.4W	201W	201.6W	200W
	Ripple & Noise (Max.) Note.2	120mVp-p	150mVp-p	180mVp-p	150mVp-p
	Voltage Adj. Range (VR1)	10.8 ~ 13.2V	13.5 ~ 16.5V	21.6 ~ 26.4V	43.2 ~ 52.8V
	Voltage Tolerance Note.3	±2%	±2%	±2%	±2%
	Line Regulation	±1%	±1%	±1%	±1%
	Load Regulation	±2%	±2%	±2%	±2%
	Setup, Rise Time	< 800ms, < 60ms at full load			
	Hold Up Time (Typ.)	> 16ms / 115VAC, > 32ms / 230VAC at full load			
Input	Voltage Range Note.4	90 ~ 264VAC, 127 ~ 370VDC			
	Frequency Range	47 ~ 63Hz			
	Power Factor (Typ.)	> 0.92 / 230VAC, > 0.95 / 115VAC at full load			
	Efficiency (Typ.)	87%	87%	88%	88%
	AC Current (Typ.)	2.4A / 115VAC, 1.2A / 230VAC (90VAC 2.88A)			
	Inrush Current (Typ.)	25A / 115VAC, 50A / 230VAC			
	Leakage Current	< 2mA / 230VAC			
Protection	Over Load	> 102% rated output power			
		Protection type: constant current limit, automatically after fault condition is removed			
	Over Voltage	115 ~ 150% rated output voltage			
		Protection type: latch-off mode, re-power on to recover			
	Over Temperature	90 ±5°C			
Environment	Working Temp.	-20 ~ +70°C (Refer to de-rating curve)			
	Working Humidity	20 ~ 90% RH non-condensing			
	Storage Temp. & Humidity	-40 ~ +85°C, 10 ~ 95% RH			
	Temp. Coefficient	±0.03% / °C (0 ~ 50°C)			
	Vibration	10 ~ 500Hz, 2G 10min. / 1cycle, period for 60min. Each along X, Y, Z axes			
Safety & EMC	Safety Standards	Certified UL 60950-1; EN 60950-1			
	Withstand Voltage	I/P-O/P: 4242VDC, I/P-FG: 2121VDC 1minute			
	Isolation Resistance	I/P-O/P, I/P-FG, O/P-FG: 100M Ohms / 500VDC			
	EMI Conduction & Radiation	Certified EN 55022; EN 61000-6-3			
	Harmonic Current	Certified EN 61000-3-2; EN 61000-3-3			
Note.5	EMS Immunity	Certified EN 61204-3; EN 55024; EN 61000-6-1; EN 61000-4-2, 3, 4, 5, 6, 8, 11			
Others	Connection	I/P: 5P/3.96mm pitch, O/P: 4P/9.5mm terminal block with cover or 6Px2 3.96mm pitch(select by user)			
	Power OK signal	Relay contact 1A / 120VAC - 230VAC			
	Cooling	Air convection			
	MTBF	139K HRS Certified MIL-HDBK-217F			
	Dimension (WxHxD)	101.5x38.0x202.0 mm / 3.996x1.496x7.953 inch			
	Packing	0.75kg; 20pcs / 16kg / 1.0CUFT			
Note	1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. 2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uF & 47uF parallel capacitor. 3. Tolerance: includes setup time tolerance, line regulation and load regulation. 4. De-rating may apply in low input voltage. Please check the de-rating curve for more details. 5. The power supply is considered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets EMC directives.				

Mechanical Drawings:

Unit:mm / inch

MODEL: UP-200C

AC Input Connector (CN1):
JST B5P-VH or equivalent

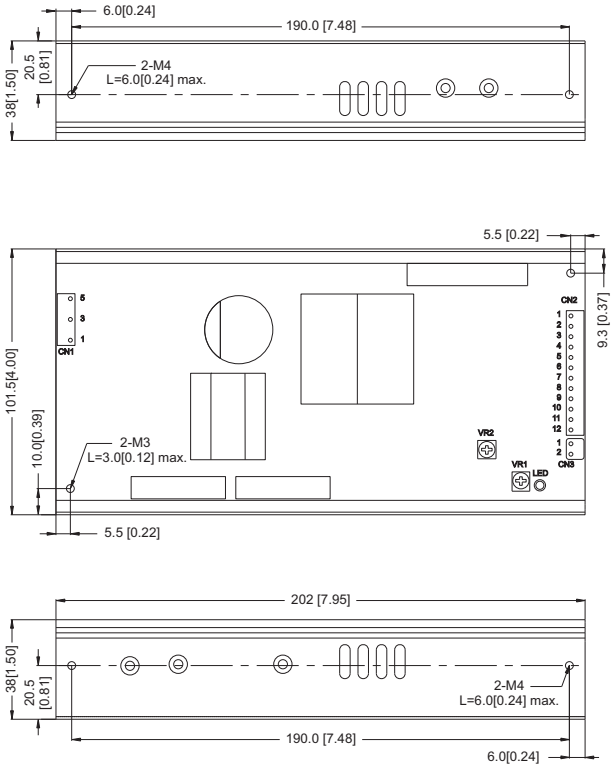
Pin. No.	Assignment	
1	Ground/Earth	FG
2	N.C	N.C
3	Neutral	AC/N
4	N.C	N.C
5	Live	AC/L

DC Output Connector (CN2 for UP-200C):
JST B6P-VH or equivalent

Pin. No.	Assignment	
1-6	VO-	Return
7-12	VO+	+Main Output

DC Output Connector (CN3):
JST B2P-VH or equivalent

Pin. No.	Assignment
1	COM
2	N.C



Recommended screw length is measured from the power supply surface

MODEL: UP-200T

AC Input Connector (CN1):
JST B5P-VH or equivalent

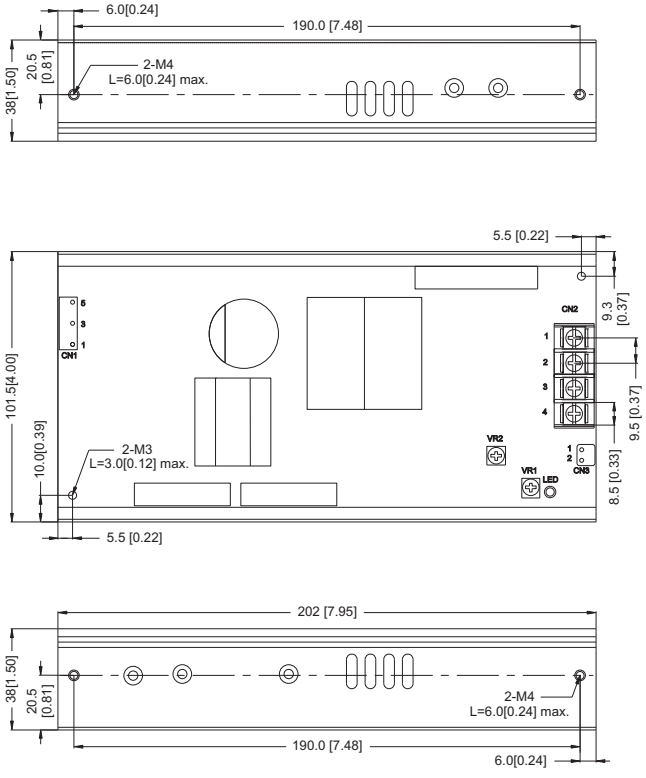
Pin. No.	Assignment	
1	Ground/Earth	FG
2	N.C	NO PIN
3	Neutral	AC/N
4	N.C	N.C
5	Live	AC/L

DC Output Connector (CN3):
JST B2P-VH or equivalent

Pin. No.	Assignment
1	COM
2	N.C

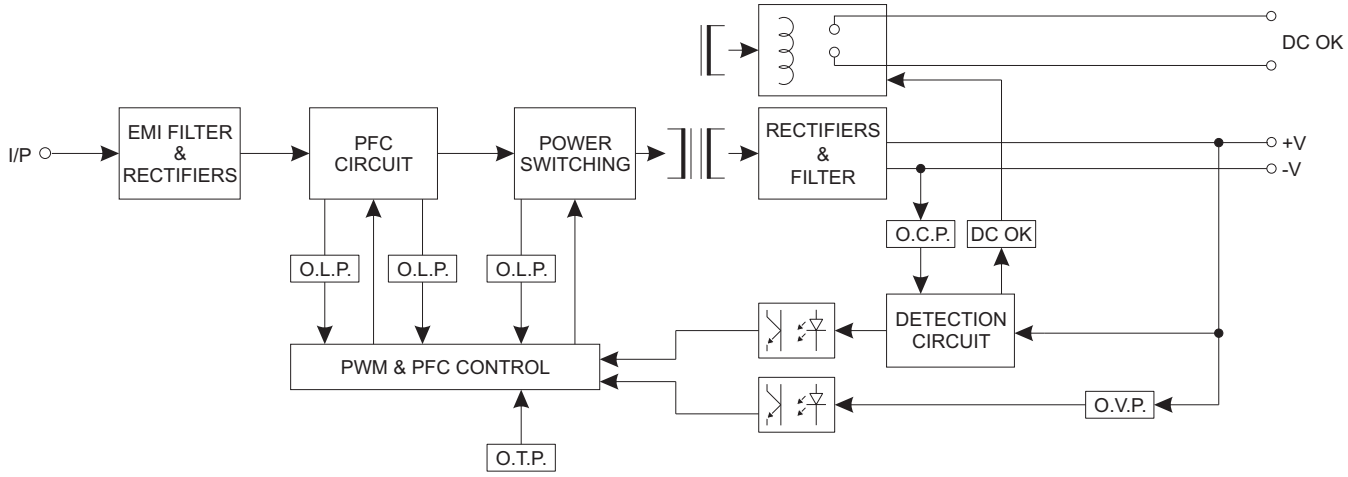
DC Output Terminal (CN4 for UP-200T):
Pitch 9.5mm:

Pin. No.	Assignment	
1	VO(-)	Return
2	VO(-)	Return
3	VO(+)	+Main Output
4	VO(+)	+Main Output

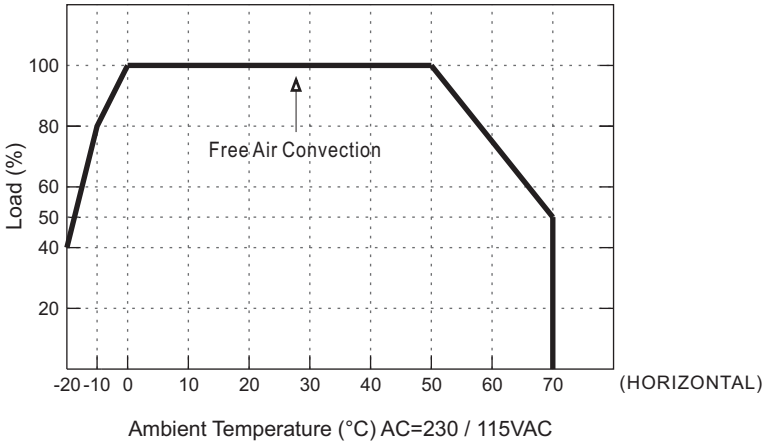


Recommended screw length is measured from the power supply surface

Block Diagram:

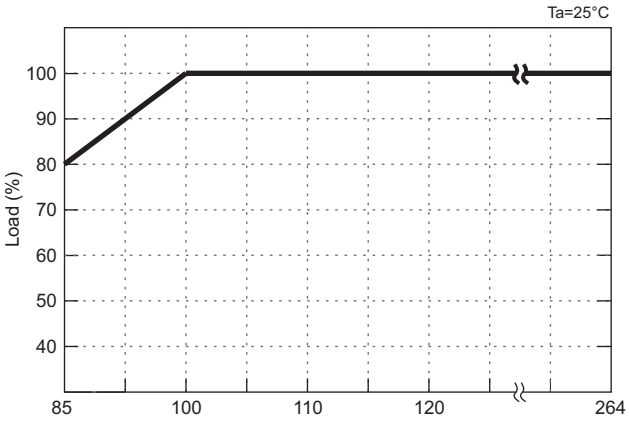


De-rating Curve:



Ambient Temperature (°C) AC=230 / 115VAC

Static Characteristics:



Input Voltage(Vac)60Hz Ta=25°C