

AC/DC Power Supplies

KO 200 Series ,200Watt

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Features

- ♦ Highest power density in 5.0′′ ×3.0′′ footprint
- ♦ Supplies 200W (convection cooling!)
- ♦ Highest efficiency up to 95%
- ♦ Operating temperature range-25°C to+70°C
- ♦ Universal input 85 264 VAC
- **♦** Compliance with EN 61000-3-2(PFC)
- **♦** Power Back immunity
- **♦** Low leakage current
- ♦ Protection class I and class II
- ♦ 3-year product warranty



UL File Number: E317501

The new KO-200 Series AC/DC Power Supplies feature the highest power rating In the industry standard $3.0^{\prime\prime} \times 5.0^{\prime\prime}$ (76.2×127 mm) footprint. They can supply up To 200W output power with convection cooling over an industrial operating temperature range of -25°C to +70°C. This performance could be realized by a state of the art design providing an extremely high efficiency of >90% which eliminates the need for a dedicated power supply cooling fan.

Compliance with global safety and EMC standards quality these power supplies for worldwide markets. Approved for Class I and Class II applications. These switchers Are suitable for industrial and IT systems but also for consumer products. High reliability is provided by use of industrial quality grade components and an excellent Thermal management. This product offers an interesting power supply solution for many space and cost critical applications in commercial and industrial electronic equipment.

Models				
Order Code	Output Power	Output Voltage	Output Current	
	Max.	(fixed)	Max.	
KO 200-112		12VDC	16A	
KO 200-115	192W	15VDC	12.8A	
KO 200-124		24VDC	8.0A	
KO 200-148		48VDC	4.0A	



AC/DC Power Supplies KO -200 Series

Input voltage	-nominal		120-240VAC(ur	niversal input	·)		
	-AC input range		85-264 with der	ating at low i	nput		
			See power dera	ting graph 1			
Input frequency			47-63Hz				
Harmonic limits			EN 61000-3-2、	class A			
Zero load power consu	nption		3.6W				
Recommended circuit b	oreaker		6A(characterist	ic C) or slow	blow fuse.		
			For protection	class II use tv	wo fuses		
			(line and neutra	al)			
Output Specificat	ions						
Regulation	-Input and load v	variation	1.0%max.				
Ripple and noise(20MH	z Bandwidth)		<120mVp-p				
			<150mVp-p for	48 VDC mod	lels		
Overvoltage protection		12&15 VDC models:	>150% of Vout				
		24&48 VDC models:	>125% of Vout	;			
Power back immunity		12 VDC model:	16 V(18V for 1	sec)			
		15VDC model:	20 V(23V for 1	sec)			
		24 VDC model:	35V(40V for 1	•			
		48 VDC model:	63 V(68V for 1				
Overload protection by			at 110-150% l				
Short circuit protection		foldback (automatic recovery)					
Capacitive load			t.b.a. µF ma	X.			
General Specifica			2.500	200	`		
Operating temperature			-25°C to +70°		_		
	-derating		see power de	rating graph 2	2		
Power derating		C1-2-					
Graph1:	414	Graph2:	4.4	4			
In respect to inp	ut voitage	in respec	t to ambient tem	perature			
200			200				
160			160			1	
Σ			and the same of th			1	
Im 120 see 100			M 20 80 80				
5 80			80 ± 80			14.0	
Q (0	+		df 10				-
40			40				
0			0				

12 & 15 VDC models 24 & 48 VDC models



AC/DC Power Supplies KO-200 Series 200Watt

General Specific		1.1.00.010/
Efficiency	-Vin=115 VAC 12&15 VDC mo	
	24&48 VDC mo	
	-Vin=230 VAC 12&15 VDC mo	
	24&48 VDC mo	dels: 92-95%
Switching frequency		100kHz typ.(pulse width modulation)
Hold-up time		10 ms typ.
Start-up time	-Vin=115 VAC	<3.0s
	-Vin=230 VAC	<2.0s
Remote On/Off	-Off: comnection to secondary ground	J3 pin 1 connected to secondary ground will
		Turn the unit off. Output voltage may pulse to
		20% of nominal output voltage
	-Off: applying external current	J3 pin 2 connected to an external current
		Source of 10 mA will turn the unit off (no pulsing output
	-On: open contacts	J3 pin 1&2 open.
Isolation voltage	-Input/Output	3000 VAC
_	-Input/Field Ground	1500 VAC
	-Input//Field Ground	500 VAC
Isolation resistance(a	t 500 VDC)	100Mohm min.
Earth leakage current		500 µ A max
Safety class(for built	in use only)	class I, class II prepared with second fuse
Electromagnets comp	patibility –Conducted input RI suppression	EN 55022,class B(conductive plane to be
(EMC),emissions		connected to field ground)
(Note 1)	-Harmonic current emissions	IEC/EN 61000-3-2, class A
Electromagnets com	patibility-electrostatic discharge ESD	IEC/EN 61000-4-2
(EMC),immunity	-RF field immunity	IEC/EN 61000-4-3
•	-Electrical fast transients/burst immur	nity IEC/EN 61000-4-4
	-Surge	IEC/EN 61000-4-5
	-Conducted RF	IEC/EN 61000-4-6
	-Voltage dip	IEC/EN 61000-4-11
Safety approvals	-CB test certificate for IEC/EN 60950-	
v 11	-CSA certificate For UL/CUL 60950-1	
Environment	-Vibration acc. IEC 60068-2-6;	3 axis, sine sweep, 10-55Hz, 0.075mm
	-Shock acc. IEC 60068-2-27	3 axis, 15g half sine, 11ms
Connection	2	pin connector (JST VHR)
Weight		315 g (8.93 oz)

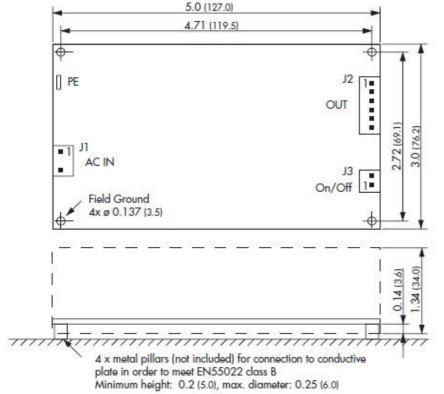
Note: 1. The power supply is considered a component which will be installed into a final equipment. The final equipment must be Re-confirmed that is still meets EMC directives.

2.All specifications valid at nominal input voltage, full load and +25°C after warm-up time unless otherwise stated.



AC/DC Power Supplies KO 200 Series, 200Watt

Dimensions



J1: JST Series B3P-VH(LF)(SN)

Mates with JST crimp terminal:SVH-21T-P1.1

And terminal housing: VHR-3N

J2: JST Series B6P-VH(LF)(SN)

Mates with JST crimp terminal: SVH-21T-P1.1

And terminal housing: VHR-6N

J3: Leoco Series 2571P2V

Mates with Leoco crimp terminal:2533TPB0000

And terminal housing: 2530S20000

PE:Faston

Mates with TAB-6.3(1/4 ")

Dimensions in inch, () =mm

J1		
Pin		
1	AC in L	
2	AC in N	

J2		
Pin	J2	
1	+ Vout	
2	+ Vout	
3	+ Vout	
4	- Vout	
5	- Vout	
6	- Vout	

		J3
ſ	Pin	
Ī	1	contact
	2	current

PE to connect to protective earth if used as safety class I unit J3 pin 1 connected to secondary ground will turn the unit off. Output voltage may pulse to 20% of nominal output voltage J3 pin 2 connected to an external current source of 10 mA Will turn the unit off (no pulsing output)

J3 pin 1&2 open: Unit is on

Specifications can be changed any time without notice

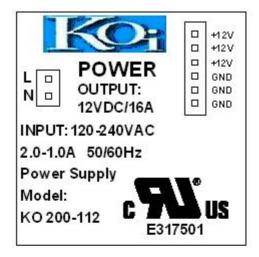


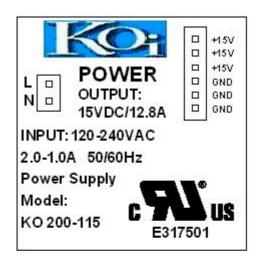
Keen Ocean Industrial Ltd.

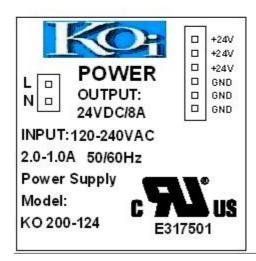
Unit D, 26/F, Shield Industrial Centre, 84-92 Chai Wan KoK Street, Tsuen Wan, N. T. , Hong kong

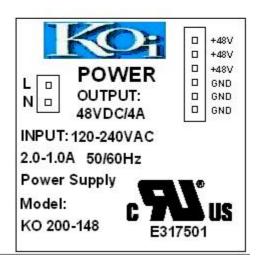
Tel: 852-31029700 Fax: 852-31029710 Page 4











Length X Wideth:24.4mm X 24mm

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Unit D, 26/F, Shield Industrial Centre, 84-92 Chai Wan KoK Street, Tsuen Wan, N. T., Hong kong

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